

Satyabrata Mohapatra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

3,111
citations

32
h-index

51
g-index

121
ext. papers

3,564
ext. citations

3.2
avg, IF

5.83
L-index

#	Paper	IF	Citations
116	Silver nanoparticles decorated two dimensional MoS ₂ nanosheets for enhanced photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 635, 128102	5.1	1
115	Green aspects of photocatalysts during corona pandemic: a promising role for the deactivation of COVID-19 virus.. <i>RSC Advances</i> , 2022 , 12, 13609-13627	3.7	1
114	Current status on designing of dual Z-scheme photocatalysts for energy and environmental applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 106, 340-340	6.3	5
113	Facile synthesis of Ce-doped ZnO nanospindles for photocatalytic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1
112	Facile synthesis, morphological, structural, photocatalytic and optical properties of ZnFe ₂ O ₄ -ZnO hybrid nanostructures. <i>Journal of Alloys and Compounds</i> , 2021 , 162723	5.7	4
111	Facile synthesis, morphological, structural, photocatalytic, and optical properties of ZnFe ₂ O ₄ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 27429	2.1	0
110	Facile fabrication of CuO nanosheets for photocatalytic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
109	Rapid synthesis of ZnO nanowires and nanoplates with highly enhanced photocatalytic performance. <i>Applied Surface Science</i> , 2021 , 541, 148484	6.7	10
108	Microwave-assisted synthesis of Fe ₂ O ₃ /ZnFe ₂ O ₄ /ZnO ternary hybrid nanostructures for photocatalytic applications. <i>Ceramics International</i> , 2021 , 47, 3833-3841	5.1	13
107	Thermal evolution of morphological, optical, and photocatalytic properties of Au/Cu ₂ O/CuO nanocomposite thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 24058-24068	2.1	
106	Morphological, optical, catalytic and photocatalytic properties of RF magnetron sputtered Au-Cu ₂ O-CuO nanocomposite thin films. <i>Surfaces and Interfaces</i> , 2021 , 26, 101436	4.1	1
105	Chemical Synthesis of Rare Earth (La, Gd) Doped Cobalt Ferrite and a Comparative Analysis of Their Magnetic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 5239-5245	1.3	3
104	RF magnetron sputtered Ag-Cu ₂ O-CuO nanocomposite thin films with highly enhanced photocatalytic and catalytic performance. <i>Applied Surface Science</i> , 2020 , 517, 146169	6.7	21
103	Facile fabrication of CuO spindles for photocatalytic applications. <i>Ceramics International</i> , 2020 , 46, 24407-24412	5.2	12
102	Magnetic bipolar transistor based on ZnO/NiO/Si heterostructure using pulsed laser deposition. <i>AIP Advances</i> , 2020 , 10, 015119	1.5	7
101	Thickness dependent optical, structural, morphological, photocatalytic and catalytic properties of radio frequency magnetron sputtered nanostructured Cu ₂ O/CuO thin films. <i>Ceramics International</i> , 2020 , 46, 14902-14912	5.1	8
100	Morphology Controlled CuO Nanostructures for Efficient Catalytic Reduction of 4-Nitrophenol. <i>Catalysis Letters</i> , 2020 , 150, 471-481	2.8	13

99	Plasmon-enhanced photoluminescence from SnO ₂ nanostructures decorated with Au nanoparticles. <i>Applied Surface Science</i> , 2020 , 504, 144381	6.7	17
98	Facile synthesis, structural, optical and photocatalytic properties of mesoporous Ag ₂ O/TiO ₂ nanoheterojunctions. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 138, 109305	3.9	5
97	Engineering of morphological, optical, structural, photocatalytic and catalytic properties of nanostructured CuO thin films fabricated by reactive DC magnetron sputtering. <i>Ceramics International</i> , 2020 , 46, 7499-7509	5.1	11
96	Fabrication of Au-CuO hybrid plasmonic nanostructured thin films with enhanced photocatalytic activity. <i>Materials Research Bulletin</i> , 2020 , 123, 110707	5.1	11
95	Surfactant based synthesis and magnetic studies of cobalt ferrite. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	3
94	Cu ₂ O and Cu ₂ O/ZnO hybrid nanostructures as photocatalysts and catalysts for efficient removal of pollutants. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	3
93	Two-dimensional CuO-ZnO nanohybrids with enhanced photocatalytic performance for removal of pollutants. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 137, 109223	3.9	32
92	Thermal annealing induced cave in and formation of nanoscale pits in Ag/TiO ₂ plasmonic nanocomposite thin film. <i>Ceramics International</i> , 2020 , 46, 3275-3281	5.1	4
91	Template-free and surfactant-free synthesis of CeO ₂ nanodiscs with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 503, 144102	6.7	32
90	Enhanced catalytic activity of CuO/Cu ₂ O hybrid nanowires for reduction of 4-nitrophenol in water. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 136, 109143	3.9	24
89	Thermal annealing induced strong photoluminescence enhancement in Ag-TiO ₂ plasmonic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 750-757	5.7	12
88	Thermal annealing induced evolution of morphological, structural, optical and photocatalytic properties of Ag-TiO ₂ nanocomposite thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 129, 317-323	3.9	14
87	Catalytic reduction of 4-nitrophenol and photocatalytic degradation of organic pollutants in water by copper oxide nanosheets. <i>Optical Materials</i> , 2019 , 93, 58-69	3.3	36
86	Facile synthesis, structural, optical and photocatalytic properties of anatase/ rutile mixed phase TiO ₂ ball-like sub-micron structures. <i>Optik</i> , 2019 , 188, 270-276	2.5	8
85	Facile Synthesis and Phase-Dependent Catalytic Activity of Cabbage-Type Copper Oxide Nanostructures for Highly Efficient Reduction of 4-Nitrophenol. <i>Catalysis Letters</i> , 2019 , 149, 2519-2527	2.8	18
84	Facile synthesis, structural and optical properties of Au-TiO ₂ plasmonic nanohybrids for photocatalytic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 135, 109100	3.9	26
83	Synthesis of Ag/TiO ₂ hybrid nanoparticles with enhanced photocatalytic activity by a facile wet chemical method. <i>Nano Structures Nano Objects</i> , 2019 , 18, 100266	5.6	24
82	Photocatalytic and catalytic removal of toxic pollutants from water using CuO nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6088-6099	2.1	16

81	Facile synthesis, morphological, structural, photocatalytic and optical properties of CoFe ₂ O ₄ nanostructures. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	4
80	Enhanced near infrared luminescence in Ag@Ag ₂ S core-shell nanoparticles. <i>Applied Surface Science</i> , 2019 , 463, 573-580	6.7	28
79	Thermal evolution of morphological, structural, optical and photocatalytic properties of CuO thin films. <i>Nano Structures Nano Objects</i> , 2019 , 17, 92-102	5.6	41
78	Ion beam engineering of morphological, structural, optical and photocatalytic properties of Ag-TiO ₂ -PVA nanocomposite thin film. <i>Ceramics International</i> , 2019 , 45, 7976-7983	5.1	17
77	Morphological, plasmonic and enhanced antibacterial properties of Ag nanoparticles prepared using Zingiber officinale extract. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 126, 257-266	3.9	8
76	Facile synthesis of ZnO nanoplates and nanoparticle aggregates for highly efficient photocatalytic degradation of organic dyes. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 121, 186-195	3.9	46
75	Facile wet chemical synthesis of ZnO nanosheets: Effects of counter ions on the morphological, structural, optical and photocatalytic properties. <i>Ceramics International</i> , 2018 , 44, 23094-23101	5.1	26
74	Nanostructured TiO ₂ thin films prepared by RF magnetron sputtering for photocatalytic applications. <i>Applied Surface Science</i> , 2017 , 422, 953-961	6.7	101
73	Atom beam sputtered Ag-TiO ₂ plasmonic nanocomposite thin films for photocatalytic applications. <i>Applied Surface Science</i> , 2017 , 411, 347-354	6.7	66
72	Facile synthesis of Au-ZnO plasmonic nano hybrids for highly efficient photocatalytic degradation of methylene blue. <i>Optical Materials</i> , 2017 , 64, 47-52	3.3	64
71	Structural, Optical and Plasmonic Properties of Ag-TiO ₂ Hybrid Plasmonic Nanostructures with Enhanced Photocatalytic Activity. <i>Plasmonics</i> , 2017 , 12, 877-888	2.4	55
70	Effects of MeV heavy ion irradiation on structural, morphological and optical properties of nanostructured SnO ₂ thin films prepared by thermal evaporation. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 647-653	5.7	5
69	Magnetic properties of single-layer and multilayer structured Co ₄₀ Fe ₄₀ B ₂₀ thin films. <i>Thin Solid Films</i> , 2016 , 616, 126-133	2.2	4
68	Enhanced CO gas sensing properties of Cu doped SnO ₂ nanostructures prepared by a facile wet chemical method. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18846-54	3.6	38
67	Plasmonic properties of Ag nanoparticles embedded in GeO ₂ -SiO ₂ matrix by atom beam sputtering. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3878-83	3.6	14
66	Radiation stability of Gd ₂ Zr ₂ O ₇ : Effect of stoichiometry and structure. <i>Ceramics International</i> , 2016 , 42, 103-109	5.1	21
65	Synthesis of nanostructured TiO ₂ thin films with highly enhanced photocatalytic activity by atom beam sputtering. <i>Advanced Materials Letters</i> , 2016 , 8, 107-113	2.4	13
64	Ion beam engineering of morphological, structural and optical properties of Au/SnO ₂ hybrid nanostructured thin films. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 155-162	5.7	10

63	Swift heavy ion irradiation of metal containing tetrahedral amorphous carbon films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 162-166	1.2	4
62	Structural, optical and gas sensing properties of Ag-SnO ₂ plasmonic nanocomposite thin films. <i>Ceramics International</i> , 2016 , 42, 17237-17242	5.1	29
61	Rapid green synthesis of silver nanoparticles and nanorods using Piper nigrum extract. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 119-126	5.7	68
60	Ion beam induced evolution of surface morphology and optical properties of SnO ₂ /ZnO nanocomposite thin films. <i>Ceramics International</i> , 2015 , 41, 8614-8622	5.1	2
59	Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2015 , 75, 120	4.2	51
58	MeV ion irradiation induced evolution of morphological, structural and optical properties of nanostructured SnO ₂ thin films. <i>Materials Research Express</i> , 2015 , 2, 045013	1.7	4
57	Highly efficient photocatalytic degradation of organic dyes by Cu doped ZnO nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25172-81	3.6	128
56	Effects of swift heavy ion irradiation on structural, optical and photocatalytic properties of ZnO-CuO nanocomposites prepared by carbothermal evaporation method. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 928-37	3	60
55	Facile Synthesis Of Co Doped ZnO Nanodisks For Highly Efficient Photocatalytic Degradation Of Methyl Orange. <i>Advanced Materials Letters</i> , 2015 , 6, 217-223	2.4	15
54	Biosynthesis Of High Concentration, Stable Aqueous Dispersions Of Silver Nanoparticles Using Citrus Limon extract. <i>Advanced Materials Letters</i> , 2015 , 6, 228-234	2.4	17
53	Thermal Evolution Of Structural, Optical And Photocatalytic Properties Of TiO ₂ Nanostructures. <i>Advanced Materials Letters</i> , 2015 , 6, 924-929	2.4	30
52	Effects Of Solvent On Structural, Optical And Photocatalytic Properties Of ZnO Nanostructures. <i>Advanced Materials Letters</i> , 2015 , 6, 1104-1110	2.4	12
51	Tunable surface plasmon resonance of silver nanoclusters in ion exchanged soda lime glass. <i>Journal of Alloys and Compounds</i> , 2014 , 598, 11-15	5.7	35
50	Enhanced photocatalytic activity of Co doped ZnO nanodisks and nanorods prepared by a facile wet chemical method. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12741-9	3.6	256
49	Effects of MeV ion irradiation on structural and optical properties of SnO ₂ /ZnO nanocomposites prepared by carbothermal evaporation. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 734-739	5.7	7
48	Facile synthesis of Ag-ZnO hybrid nanospindles for highly efficient photocatalytic degradation of methyl orange. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17560-8	3.6	127
47	Enhanced photocatalytic activity of Ag-ZnO hybrid plasmonic nanostructures prepared by a facile wet chemical method. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 639-50	3	77
46	Synthesis of embedded Au nanostructures by ion irradiation: influence of ion induced viscous flow and sputtering. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 105-10	3	13

45	Modification of properties of metal containing carbon films by swift heavy ion irradiation 2014 ,		1
44	Shape elongation of Zn nanoparticles in silica irradiated with swift heavy ions of different species and energies: scaling law and some insights on the elongation mechanism. <i>Nanotechnology</i> , 2014 , 25, 435301	3.4	29
43	Structural and optical properties of SnO ₂ nanotowers and interconnected nanowires prepared by carbothermal reduction method. <i>Journal of Alloys and Compounds</i> , 2014 , 592, 238-243	5.7	15
42	Formation of Self-organized Silver Nanocup-Type Structures and Their Plasmonic Absorption. <i>Plasmonics</i> , 2013 , 8, 811-815	2.4	69
41	Ejection of Au and Si nanocrystals from Au implanted Si(100) by MeV heavy ion irradiation. <i>Applied Surface Science</i> , 2013 , 283, 128-133	6.7	3
40	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. <i>Applied Physics Letters</i> , 2013 , 103, 203106	3.4	21
39	Structural, optical and photocatalytic properties of flower-like ZnO nanostructures prepared by a facile wet chemical method. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 763-70	3	72
38	In-situ TEM Observation Of Electron Irradiation Induced Shape Transition Of Elongated Gold Nanoparticles Embedded In Silica. <i>Advanced Materials Letters</i> , 2013 , 4, 444-448	2.4	5
37	A study on the formation of Ag nanoparticles on the surface and catcher by ion beam irradiation of Ag thin films. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 445304	3	28
36	Crystal growth behaviour in Au-ZnO nanocomposite under different annealing environments and photoswitchability. <i>Journal of Applied Physics</i> , 2012 , 112, 064308	2.5	101
35	Synthesis and characterization of Au/Alumina nanocomposites prepared by atom beam co-sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2499-2504	1.6	8
34	Plasmonic, Low-Frequency Raman, and Nonlinear Optical-Limiting Studies in Copper/Silica Nanocomposites. <i>Plasmonics</i> , 2012 , 7, 25-31	2.4	32
33	Synthesis of silver nanorings by atom beam sputtering. <i>International Journal of Nanomanufacturing</i> , 2011 , 7, 21	0.7	3
32	Role of melting temperature in intermixing of miscible metal/metal bilayers induced by swift heavy ions. <i>Radiation Effects and Defects in Solids</i> , 2011 , 166, 689-695	0.9	2
31	Synthesis and characterization of Ag-polymer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2833-7	1.3	46
30	Synthesis of plasmonic nanocomposites for diverse applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2705-12	1.3	33
29	Tailoring The Size Of Gold Nanoparticles By Electron Beam Inside Transmission Electron Microscope. <i>Advanced Materials Letters</i> , 2010 , 1, 151-155	2.4	6
28	SHI induced surface modifications of immiscible Fe/Bi bilayer system. <i>Surface and Coatings Technology</i> , 2009 , 203, 2399-2402	4.4	3

27	Swift heavy ion induced modifications of optical and microstructural properties of silver fullerene C60 nanocomposite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 1349-1352	1.2	37
26	Shape deformation of embedded metal nanoparticles by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 936-940	1.2	31
25	Synthesis of Controlled Diluted Magnetic Semiconductor by Ni Implantation in ZnO Crystal. <i>Advanced Science Letters</i> , 2009 , 2, 324-328	0.1	4
24	Au/ZnO: A tunable localized surface plasmonic nanocomposite. <i>Applied Physics Letters</i> , 2008 , 92, 043107	3.4	137
23	Synthesis and characterizations of silver-fullerene C70 nanocomposite. <i>Applied Physics Letters</i> , 2008 , 93, 103114	3.4	41
22	Synthesis of gold-silicon core-shell nanoparticles with tunable localized surface plasmon resonance. <i>Applied Physics Letters</i> , 2008 , 92, 103105	3.4	77
21	Surface plasmon resonance of Ag nanoparticles embedded in partially oxidized amorphous Si matrix. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4285-9	1.3	25
20	Compositional analysis of atom beam co-sputtered metal/silica nanocomposites by Rutherford backscattering spectrometry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1511-1516	1.2	13
19	Swift heavy ion induced modifications of fullerene C70 thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 3257-3262	1.2	36
18	Smoothing, roughening and sputtering: the complex evolution of immiscible Fe/Bi bilayer system. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 215306	3	14
17	Gold/silica nanocomposites for the detection of human ovarian cancer cells: a preliminary study. <i>Nanotechnology</i> , 2007 , 18, 345606	3.4	57
16	Linear and nonlinear optical absorption in copper nanocluster-glass composites. <i>Materials Letters</i> , 2007 , 61, 4512-4515	3.3	36
15	Synthesis and characterization of Ag nanoparticles in silica matrix by atom beam sputtering. <i>Scripta Materialia</i> , 2007 , 56, 629-632	5.6	113
14	Anomalous diffusion of Au in mega-electron-volt Au implanted SiO ₂ /Si(100). <i>Journal of Applied Physics</i> , 2007 , 101, 063542	2.5	6
13	Growth of Au nanostructures by annealing electron beam evaporated thin films. <i>Journal of Optics</i> , 2007 , 9, S410-S414		21
12	Growth of Self-Organized Metal Nanostructures by Physical Methods. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007 , 37, 357-362		1
11	Synthesis of Au nanoparticles in partially oxidized Si matrix by atom beam sputtering. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7063-7068	3	22
10	Improvement in the ability to block Hg out diffusion from Hg _{1-x} CdxTe by hydrogenation. <i>Semiconductor Science and Technology</i> , 2006 , 21, 998-1001	1.8	4

9	Effect of implanted O on gettering of Au at dislocations in Si. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 129, 43-47	3.1	2
8	Gettering of implanted Au in MeV C implanted Si. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 297-304	2.6	4
7	RBS study of annealing effects in passivated mercury cadmium telluride. <i>Semiconductor Science and Technology</i> , 2005 , 20, 1072-1077	1.8	2
6	Low energy O induced redistribution of nanosized Au inclusions in an oxide layer grown on Si(1 0 0). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 227, 559-566	1.2	10
5	Size saturation in low energy ion beam synthesized Au nanoclusters and their size redistribution with O irradiation. <i>Thin Solid Films</i> , 2005 , 492, 35-40	2.2	23
4	CdTe and anodic oxides on Hg _{1-x} CdxTe: interface and compositional analysis using Rutherford backscattering spectroscopy. <i>Surface and Interface Analysis</i> , 2005 , 37, 562-567	1.5	4
3	High efficiency gettering of Au in Si(111) by MeV C implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 217, 578-582	1.2	5
2	Rutherford backscattering and electron microscopy study of annealing behavior of MeV implanted gold in silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 222, 249-254	1.2	8
1	Crater formation in gold nanoislands due to MeV self-ion irradiation. <i>Journal of Applied Physics</i> , 2003 , 93, 6399-6401	2.5	16