

# Sachindra Nath Sarangi

## List of Publications by Year in descending order

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57  
papers

1,674  
citations

304368

22  
h-index

288905

40  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2610  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro biosynthesis and genotoxicity bioassay of silver nanoparticles using plants. <i>Toxicology in Vitro</i> , 2011, 25, 1097-1105.	1.1	235
2	Micro-Raman and XPS studies of pure ZnO ceramics. <i>Physica B: Condensed Matter</i> , 2010, 405, 2492-2497.	1.3	225
3	Optical properties of CdS nanocrystalline films prepared by a precipitation technique. <i>Thin Solid Films</i> , 1998, 322, 21-27.	0.8	91
4	Raman spectroscopy of CdS nanocrystalline semiconductors. <i>Physica B: Condensed Matter</i> , 1999, 262, 31-39.	1.3	87
5	ZnO Nanorod-Based Non-Enzymatic Optical Glucose Biosensor. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 988-996.	0.5	71
6	Au-nanocluster emission based glucose sensing. <i>Biosensors and Bioelectronics</i> , 2011, 29, 60-65.	5.3	64
7	Structural and optical properties of Mn-doped CdS thin films prepared by ion implantation. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	60
8	Synthesis of multi-wall carbon nanotubes by simple pyrolysis. <i>Solid State Communications</i> , 2008, 145, 143-148.	0.9	57
9	Structural and impedance spectroscopy study of Samarium modified Barium Zirconium Titanate ceramic prepared by mechanochemical route. <i>Current Applied Physics</i> , 2014, 14, 1192-1200.	1.1	53
10	CdSe nanocrystalline thin films: composition, structure and optical properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 23, 159-167.	1.3	45
11	Microstrain analysis of proton irradiated PET microfiber. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 248, 305-310.	0.6	45
12	Structural refinement, optical and ferroelectric properties of microcrystalline Ba(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> perovskite. <i>Current Applied Physics</i> , 2014, 14, 708-715.	1.1	43
13	Strong UV absorption and emission from L-cysteine capped monodispersed gold nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, 073109.	1.5	38
14	Implantation-assisted Co-doped CdS thin films: Structural, optical, and vibrational properties. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	37
15	Band gap engineering in SnO <sub>2</sub> by Pb doping. <i>Journal of Alloys and Compounds</i> , 2018, 762, 16-20.	2.8	34
16	Magnetic properties of nanocrystalline nickel incorporated CuO thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 59-66.	1.0	34
17	Influence of implantation induced Ni-doping on structural, optical, and morphological properties of nanocrystalline CdS thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 171, 16-19.	1.7	33
18	Controllable growth of ZnO nanorods via electrodeposition technique: towards UV photo-detection. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 355103.	1.3	33

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19	Low temperature stabilized rutile phase TiO <sub>2</sub> films grown by sputtering. <i>Thin Solid Films</i> , 2012, 520, 1809-1813.	0.8	31
20	Measurement of surface roughness by atomic force microscopy and Rutherford backscattering spectrometry of CdS nanocrystalline films. <i>Applied Surface Science</i> , 1998, 133, 293-297.	3.1	28
21	HgS nanoparticles: Structure and optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 86, 447-450.	1.1	27
22	Visible light emission from CdS nanocrystals. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 2306-2310.	1.3	25
23	Modification of WO <sub>3</sub> thin films by MeV N <sup>+</sup> -ion beam irradiation. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 186204.	0.7	22
24	CdS Nanocrystalline films: Composition, surface, crystalline size, structural and optical absorption studies. <i>Scripta Materialia</i> , 1998, 10, 1401-1410.	0.5	21
25	Effect of substrate temperature on implantation doping of Co in CdS nanocrystalline thin films. <i>Nanoscale</i> , 2010, 2, 1155.	2.8	21
26	Effect of Fe-ion implantation doping on structural and optical properties of CdS thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 837-842.	1.1	20
27	Facile synthesis of Super-paramagnetic Au @ Fe <sub>3</sub> O <sub>4</sub> hybrid nanoparticle and its assembly on graphene substrate for visible light Photo-catalysis. <i>Applied Surface Science</i> , 2022, 577, 151954.	3.1	17
28	Biomolecular recognition in DNA tagged CdSe nanowires. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3086-3091.	5.3	16
29	Modifications in structural and optical properties of Mn-ion implanted CdS thin films. <i>Applied Surface Science</i> , 2009, 256, 465-468.	3.1	14
30	Surface characterization and electronic structure of HgTe nanocrystalline thin films. <i>Physical Review B</i> , 2005, 72, .	1.1	13
31	Effect of structure and morphology on the UV photo detection of ZnO nanostructures and microstructures. <i>Chemical Physics</i> , 2019, 523, 99-105.	0.9	13
32	Substrate effect of hydrothermally grown ZnO nanorods and its luminescence properties. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 382-388.	1.3	11
33	Current-voltage and capacitance-voltage studies of nanocrystalline CdSe/Au Schottky junction interface. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2277-2286.	0.8	9
34	Unusual ferromagnetism in high purity ZnO sintered ceramics. <i>Materials Research Bulletin</i> , 2011, 46, 42-47.	2.7	9
35	Electrical properties of 1N4007 silicon diode. <i>Review of Scientific Instruments</i> , 1997, 68, 2904-2908.	0.6	8
36	XPS studies of DNA-cation-interacted self-assembled HgTe quantum dots formed under electrodeposition and their resultant biomolecular recognition application. <i>Nanotechnology</i> , 2008, 19, 115606.	1.3	8

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37	DNA template driven CdSe nanowires and nanoparticles: Structure and optical properties. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1670-1674.	1.3	8
38	STRUCTURE AND MORPHOLOGICAL STUDIES OF CdSe NANOCRYSTALS. International Journal of Nanoscience, 2006, 05, 109-117.	0.4	7
39	Size quantization effect in highly stable UV emitting HgTe nanoparticles: Structure and optical properties. Journal of Applied Physics, 2009, 106, .	1.1	7
40	Raman spectra of filled carbon nanotubes. Physica B: Condensed Matter, 2004, 351, 129-136.	1.3	6
41	Observation of semiconductor to insulator transition in Sb/Sb <sub>2</sub> O <sub>3</sub> clusters synthesized by low-energy cluster beam deposition with different conditions. Vacuum, 2006, 81, 366-372.	1.6	6
42	Metal Contacts in Nanocrystalline &lt;n>-Type GaN: Schottky Diodes. Journal of Nanoscience and Nanotechnology, 2009, 9, 2532-2539.	0.9	6
43	Schottky junction devices by using bio-molecule DNA template-based one dimensional CdS-nanostructures. Biosensors and Bioelectronics, 2021, 190, 113402.	5.3	6
44	Synthesis of LECBD grown cluster assembled SeO <sub>2</sub> thin films. Applied Surface Science, 2006, 253, 2138-2142.	3.1	5
45	Occurrence of Ferromagnetic Behavior in ZrO <sub>2</sub> by Ni Substitution Beyond x = 0.01. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1463-1471.	0.8	5
46	Biocatalytic growth of semiconductor nanowires. Journal of Applied Physics, 2007, 101, 074306.	1.1	4
47	Evolution Of Surface Topography On GaAs(100) And GaAs(111) At Normal And Oblique Incidence Of Ar <sup>+</sup> -Ions. , 2010, , .		3
48	Selective growth of ZnO nanorods by the hydrothermal technique. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2013, 4, 015008.	0.7	3
49	CdS nanowires formed by chemical synthesis using conjugated single-stranded DNA molecules. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 64-68.	1.3	3
50	Mixed-valent antimony-induced disorder in substituted antiferromagnetic Mn <sub>2</sub> SnS <sub>4</sub> . Dalton Transactions, 2020, 49, 6425-6433.	1.6	3
51	Facile two step synthesis of chemiresistive sensor based on <sup>13</sup> Fe <sub>2</sub> O <sub>3</sub> activated carbon composites for room temperature alcohol vapour detection. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	2
52	Epitaxial growth of colloidal hydrophilic lattice matched HgTe/CdTe core/shell nanocrystals for UV luminescence. Materials Chemistry and Physics, 2012, 137, 389-395.	2.0	1
53	Manifestation of dissimilar types of magnetism in iron- and chromium-substituted Mn <sub>2</sub> SnS <sub>4</sub> . Dalton Transactions, 2021, 50, 15711-15720.	1.6	1
54	Effect of low energy He <sup>+</sup> -ion irradiation on structural and magnetic properties of thin Pt/Cr/Co multilayers. Nuclear Instruments & Methods in Physics Research B, 2011, 272, 96-96.	0.6	0

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55	Intense Ultraviolet Photoluminescence Observed at Room Temperature from NiO Nano-porous Thin Films Grown by the Hydrothermal Technique. Materials Research Society Symposia Proceedings, 2012, 1494, 203-208.	0.1	0
56	ZnO-nanorods: A possible white LED phosphor. AIP Conference Proceedings, 2017, , .	0.3	0
57	DNA assisted synthesis of CdS nanowires: A nano-bioelectronic device. AIP Conference Proceedings, 2018, , .	0.3	0