

Arabinda Nayak

List of Publications by Year in descending order

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53
papers

421
citations

933447

10
h-index

888059

17
g-index

53
all docs

53
docs citations

53
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic properties of graphite oxide and reduced graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 64, 78-82.	2.7	89
2	Derivative spectra of polycrystalline Zn ₃ P ₂ thin films. <i>Solid State Communications</i> , 1991, 78, 149-151.	1.9	21
3	Tuning of near infrared excitonic emission from InAs quantum dots by controlling the sub-monolayer coverage. <i>Journal of Luminescence</i> , 2019, 210, 311-321.	3.1	17
4	Preparation and evaluation of microstructure, dielectric and conductivity (ac/dc) characteristics of a polyaniline/poly N-vinyl carbazole/Fe ₃ O ₄ nanocomposite. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	16
5	Preparation, Characterization And Dielectric, Ac Conductivity With Electrochemical Behavior Of Strontium Zirconate. <i>Advanced Materials Letters</i> , 2016, 7, 646-651.	0.6	15
6	Strong temperature and substrate effect on ZnO nanorod flower structures in modified chemical vapor condensation growth. <i>Current Applied Physics</i> , 2010, 10, 942-946.	2.4	14
7	Microstructure, dielectric response and electrical properties of polypyrrole modified (poly N-vinyl) Tj ETQq1 1 0.784314 rgBT /Overloc	3.9	14
8	Photoluminescence spectra of Zn ₃ P ₂ -Cd ₃ P ₂ thin films. <i>Applied Physics Letters</i> , 1993, 63, 592-593.	3.3	13
9	Preparation and characterization of Zn ₃ P ₂ -Cd ₃ P ₂ solid solutions. <i>Journal of Materials Science</i> , 1992, 27, 4389-4392.	3.7	12
10	X-ray photoelectron spectroscopy of zinc phosphide thin film. <i>Applied Surface Science</i> , 1999, 148, 205-210.	6.1	12
11	Band-gap tuning and optical response of two-dimensional C_xSi_x . A first-principles real-space study of disordered two-dimensional materials. <i>Physical Review B</i> , 2017, 96,	3.2	11
12	Preparation and evaluation of a poly(N-vinylcarbazole)-Fe ₃ O ₄ (PNVC-Fe ₃ O ₄) nanocomposite. <i>Materials Chemistry and Physics</i> , 2011, 128, 256-264.	4.0	10
13	Rapid responsive Mg/ZnSnP ₂ /Sn photodetector for visible to near-infrared application. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 181-187.	6.2	10
14	Evaluation of spontaneous superlattice ordering in MOCVD grown Al _x Ga _{1-x} As epilayer on GaAs (100) using X-ray reflectivity and rocking curve analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 106, 357-362.	2.7	10
15	Optical studies on electron-beam-deposited Zn ₃ P ₂ thin films. <i>Journal of Materials Science Letters</i> , 1991, 10, 403-405.	0.5	9
16	Microstructure and dielectric functions of Ge nanocrystals embedded between amorphous Al ₂ O ₃ films: study of confinement and disorder. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 463-474.	2.4	9
17	Microstructural and light emission properties of ZnSnP ₂ thin film absorber: Study of native defects. <i>Materials Chemistry and Physics</i> , 2018, 204, 147-153.	4.0	9
18	Spontaneous superlattice structures in Al _x Ga _{1-x} As/GaAs (1 0 0) grown by metalorganic vapor phase epitaxy. <i>Materials Letters</i> , 2018, 210, 77-79.	2.6	9

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19	Optical constants of Zn ₃ P ₂ -Cd ₃ P ₂ thin films. <i>Optical Materials</i> , 1992, 1, 85-89.	3.6	8
20	Preparation and characterization of Cd ₃ P ₂ thin films. <i>Journal of Applied Physics</i> , 1993, 74, 214-218.	2.5	7
21	Dielectric Properties of Polyaniline-Montmorillonite Clay Hybrids. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1824-1829.	0.9	7
22	Some Observations on the Dielectric and Conductivity Behavior of Nanocomposites of Polyaniline with Fe ₃ O ₄ and CuFe ₂ O ₄ . <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1317-1326.	1.9	7
23	Probing bias and power dependency of high-performance broadband Mg/ZnSnP ₂ /Sn back-to-back Schottky junction photodetectors. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110386.	6.2	7
24	Rollover Crash Analysis of the RTV Using Madymo. , 0, , .		6
25	Effect of disorder on the optical response of NiPt and Ni ₃ Pt alloys. <i>Computational Materials Science</i> , 2017, 140, 1-9.	3.0	6
26	Carrier transport and recombination dynamics of InAs/GaAs sub-monolayer quantum dot near infrared photodetector. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 505107.	2.8	6
27	Improved spectral and temporal response of MSM photodetectors fabricated on MOCVD grown spontaneous AlGaAs superlattice. <i>Sensors and Actuators A: Physical</i> , 2019, 297, 111548.	4.1	6
28	Vapor condensation growth and evolution mechanism of ZnO nanorod flower structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 364-369.	1.8	5
29	Effect of random vacancies on the electronic properties of graphene and T graphene: a theoretical approach. <i>Indian Journal of Physics</i> , 2017, 91, 1541-1552.	1.8	5
30	X-ray photoelectron spectra of Zn ₃ P ₂ -Cd ₃ P ₂ alloy semiconducting thin films. <i>Materials Chemistry and Physics</i> , 1999, 60, 95-98.	4.0	4
31	Rollover crashworthiness of a rural transport vehicle using MADYMO. <i>International Journal of Crashworthiness</i> , 2006, 11, 495-503.	1.9	4
32	Dielectric Relaxation and Room Temperature Magnetoresistance Under Low Magnetic Field in Polypyrrole-BaTiO ₃ Hybrid Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4658-4666.	0.9	4
33	Growth and characterization of InAs sub-monolayer quantum dots with varying fractional coverage. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
34	Carrier escape mechanism in laterally correlated InAs sub-monolayer quantum dots using temperature dependent photoluminescence. <i>Journal of Luminescence</i> , 2019, 215, 116597.	3.1	4
35	Electrical properties of electron-beam-evaporated Zn ₃ P ₂ -Cd ₃ P ₂ alloy films. <i>Materials Chemistry and Physics</i> , 1994, 37, 225-229.	4.0	3
36	Bonding characteristics and optical properties of amorphous carbon/diamond films deposited by an electron beam activated plasma CVD method. <i>Physica Status Solidi A</i> , 1995, 149, 629-635.	1.7	3

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37	Morphological, Dielectric and Electrical Conductivity Characteristics of Clay-Containing Nanohybrids of Poly(N-Vinyl Carbazole) and Polypyrrole. Journal of Nanoscience and Nanotechnology, 2012, 12, 7841-7848.	0.9	3
38	NiV 2 O 6 -incorporated poly-(3,4-ethylenedioxythiophene) polymer nanocomposite: Synthesis, characterization, temperature dependent dielectric property and ac-conductivity relaxation behavior. Materials Chemistry and Physics, 2016, 182, 173-181.	4.0	3
39	Disorder induced lifetime effects in binary disordered systems: A first principles formalism and an application to disordered graphene. International Journal of Modern Physics B, 2017, 31, 1750218.	2.0	3
40	Interface intermixing and interdiffusion characteristics in MOVPE grown spontaneous Al _x Ga _{1-x} As/GaAs (100) superlattice structures using high resolution X-ray diffraction. Superlattices and Microstructures, 2019, 126, 193-199.	3.1	3
41	Fast-response symmetric coplanar Ni/AlGaInP/Ni visible photodetector. Sensors and Actuators A: Physical, 2020, 305, 111933.	4.1	3
42	Electron beam activated plasma chemical vapour deposition of polycrystalline diamond films. Physica Status Solidi A, 1995, 151, 107-112.	1.7	2
43	Temperature and excitation dependent ultraviolet lasing in vertically oriented ZnO nanowires. Journal of Materials Science: Materials in Electronics, 2019, 30, 8814-8819.	2.2	2
44	Bonding and optical properties of diamond-like hydrocarbon films deposited by plasma decomposition of acetylene—the role of water vapour addition. Materials Chemistry and Physics, 1997, 47, 159-163.	4.0	1
45	Photoluminescence spectroscopic investigation on the quality of diamond films grown in oxy-acetylene combustion flame. Thin Solid Films, 1997, 298, 14-21.	1.8	1
46	Study of thermal stability of spontaneously grown superlattice structures by metalorganic vapor phase epitaxy in Al _x Ga _{1-x} As/GaAs heterostructure. AIP Conference Proceedings, 2018, , .	0.4	1
47	Probing interface roughness of the GaAs/Al _{0.3} Ga _{0.7} As multi-quantum-well structures using low-temperature photoluminescence spectra. AIP Conference Proceedings, 2020, , .	0.4	1
48	Dielectric and Conductivity Characteristics of CuCl ₂ Doped Poly(N-vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Nanoscience and Nanotechnology, 2014, 14, 5774-5780.	0.9	1
49	Phase Selective Growth Of Ge Nanocrystalline Films By Ionized Cluster Beam Deposition Technique And Photo-Oxidation Study. Advanced Materials Letters, 2017, 8, 891-896.	0.6	1
50	Investigating the rollover propensity of a 15 seater mini bus. International Journal of Vehicle Safety, 2007, 2, 206.	0.2	0
51	Observation of natural superlattice in Al _x Ga _{1-x} As layers grown by metalorganic vapor phase epitaxy. AIP Conference Proceedings, 2016, , .	0.4	0
52	Growth and characterization of cubic and non-cubic Ge nanocrystals. AIP Conference Proceedings, 2016, , .	0.4	0
53	Spectral and temporal performance enhancement in a symmetric co-planar Au-Ge/AlGaAs/Au-Ge natural superlattice-based MSM photodetector. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	0