Arabinda Nayak

List of Publications by Year
in descending order

53	421	933447	888059
papers	citations	10 h-index	17 g-index

53	53	53	520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing bias and power dependency of high-performance broadband Mg/ZnSnP2/Sn back-to-back Schottky junction photodetectors. Solar Energy Materials and Solar Cells, 2020, 208, 110386.	6.2	7
2	Fast-response symmetric coplanar Ni/AlGaInP/Ni visible photodetector. Sensors and Actuators A: Physical, 2020, 305, 111933.	4.1	3
3	Probing interface roughness of the GaAs/Al0.3Ga0.7As multi-quantum-well structures using low-temperature photoluminescence spectra. AIP Conference Proceedings, 2020, , .	0.4	1
4	Carrier escape mechanism in laterally correlated InAs sub-monolayer quantum dots using temperature dependent photoluminescence. Journal of Luminescence, 2019, 215, 116597.	3.1	4
5	Carrier transport and recombination dynamics of InAs/GaAs sub-monolayer quantum dot near infrared photodetector. Journal Physics D: Applied Physics, 2019, 52, 505107.	2.8	6
6	Improved spectral and temporal response of MSM photodetectors fabricated on MOCVD grown spontaneous AlGaAs superlattice. Sensors and Actuators A: Physical, 2019, 297, 111548.	4.1	6
7	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
8	Tuning of near infrared excitonic emission from InAs quantum dots by controlling the sub-monolayer coverage. Journal of Luminescence, 2019, 210, 311-321.	3.1	17
9	Interface intermixing and interdiffusion characteristics in MOVPE grown spontaneous AlxGa1-xAs/GaAs (100) superlattice structures using high resolution X-ray diffraction. Superlattices and Microstructures, 2019, 126, 193-199.	3.1	3
10	Rapid responsive Mg/ZnSnP2/Sn photodetector for visible to near-infrared application. Solar Energy Materials and Solar Cells, 2019, 189, 181-187.	6.2	10
11	Evaluation of spontaneous superlattice ordering in MOCVD grown AlxGa1-xAs epilayer on GaAs (100) using X-ray reflectivity and rocking curve analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 357-362.	2.7	10
12	Microstructural and light emission properties of ZnSnP2 thin film absorber: Study of native defects. Materials Chemistry and Physics, 2018, 204, 147-153.	4.0	9
13	Spontaneous superlattice structures in AlxGa1â^'xAs/GaAs (1 0 0) grown by metalorganic vapor phase epitaxy. Materials Letters, 2018, 210, 77-79.	2.6	9
14	Growth and characterization of InAs sub-monolayer quantum dots with varying fractional coverage. AIP Conference Proceedings, 2018, , .	0.4	4
15	Study of thermal stability of spontaneously grown superlattice structures by metalorganic vapor phase epitaxy in AlxGa1â^'xAs/GaAs heterostructure. AIP Conference Proceedings, 2018, , .	0.4	1
16	Dielectric Relaxation and Room Temperature Magnetoresistance Under Low Magnetic Field in Polypyrrole-BaTiO3 Hybrid Nanocomposites. Journal of Nanoscience and Nanotechnology, 2017, 17, 4658-4666.	0.9	4
17	Effect of disorder on the optical response of NiPt and Ni3Pt alloys. Computational Materials Science, 2017, 140, 1-9.	3.0	6
18	Effect of random vacancies on the electronic properties of graphene and T graphene: a theoretical approach. Indian Journal of Physics, 2017, 91, 1541-1552.	1.8	5

#	Article	IF	Citations
19	Band-gap tuning and optical response of two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Si</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> A first-principles real-space study of disordered two-dimensional materials. Physical Review B, 2017, 96,	3.2	11
20	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
21	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
22	Observation of natural superlattice in AlXGa1-XAs layers grown by metalorganic vapor phase epitaxy. AIP Conference Proceedings, 2016, , .	0.4	0
23	Growth and characterization of cubic and non-cubic Ge nanocrystals. AIP Conference Proceedings, 2016, , .	0.4	0
24	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
25	Preparation, Characterization And Dielectric, Ac Conductivity With Electrochemical Behavior Of Strontium Zirconate. Advanced Materials Letters, 2016, 7, 646-651.	0.6	15
26	Some Observations on the Dielectric and Conductivity Behavior of Nanocomposites of Polyaniline with Fe3O4and CuFe2O4. Polymer-Plastics Technology and Engineering, 2014, 53, 1317-1326.	1.9	7
27	Microstructure and dielectric functions of Ge nanocrystals embedded between amorphous Al₂O₃films: study of confinement and disorder. Journal of Experimental Nanoscience, 2014, 9, 463-474.	2.4	9
28	Magnetic properties of graphite oxide and reduced graphene oxide. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 78-82.	2.7	89
29	Dielectric and Conductivity Characteristics of CuCl₂ Doped Poly(<I>N</I>-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Nanoscience and Nanotechnology, 2014, 14, 5774-5780.	0.9	1
30	Dielectric Properties of Polyaniline-Montmorillonite Clay Hybrids. Journal of Nanoscience and Nanotechnology, 2013, 13, 1824-1829.	0.9	7
31	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
32	Preparation and evaluation of microstructure, dielectric and conductivity (ac/dc) characteristics of a polyaniline/poly N-vinyl carbazole/Fe3O4 nanocomposite. Journal of Polymer Research, 2012, 19, 1.	2.4	16
33	Microstructure, dielectric response and electrical properties of polypyrrole modified (poly N-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	14
34	Preparation and evaluation of a poly(N-vinylcarbazole)â€“Fe3O4 (PNVCâ€“Fe3O4) nanocomposite. Materials Chemistry and Physics, 2011, 128, 256-264.	4.0	10
35	Strong temperature and substrate effect on ZnO nanorod flower structures in modified chemical vapor condensation growth. Current Applied Physics, 2010, 10, 942-946.	2.4	14
36	Vapor condensation growth and evolution mechanism of ZnO nanorod flower structures. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 364-369.	1.8	5

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37	Investigating the rollover propensity of a 15 seater mini bus. International Journal of Vehicle Safety, 2007, 2, 206.	0.2	0
38	Rollover crashworthiness of a rural transport vehicle using MADYMO. International Journal of Crashworthiness, 2006, 11, 495-503.	1.9	4
39	X-ray photoelectron spectroscopy of zinc phosphide thin film. Applied Surface Science, 1999, 148, 205-210.	6.1	12
40	X-ray photoelectron spectra of Zn3P2â€“Cd3P2 alloy semiconducting thin films. Materials Chemistry and Physics, 1999, 60, 95-98.	4.0	4
41	Bonding and optical properties of diamond-like hydrocarbon films deposited by plasma decomposition of acetyleneâ€”the role of water vapour addition. Materials Chemistry and Physics, 1997, 47, 159-163.	4.0	1
42	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
43	Bonding characteristics and optical properties of amorphous carbon/diamond films deposited by an electron beam activated plasma CVD method. Physica Status Solidi A, 1995, 149, 629-635.	1.7	3
44	Electron beam activated plasma chemical vapour deposition of polycrystalline diamond films. Physica Status Solidi A, 1995, 151, 107-112.	1.7	2
45	Electrical properties of electron-beam-evaporated Zn3P2î—¸Cd3P2 alloy films. Materials Chemistry and Physics, 1994, 37, 225-229.	4.0	3
46	Preparation and characterization of Cd3P2thin films. Journal of Applied Physics, 1993, 74, 214-218.	2.5	7
47	Photoluminescence spectra of Zn3P2â€Cd3P2thin films. Applied Physics Letters, 1993, 63, 592-593.	3.3	13
48	Preparation and characterization of Zn3P2-Cd3P2 solid solutions. Journal of Materials Science, 1992, 27, 4389-4392.	3.7	12
49	Optical constants of Zn3P2-Cd3P2 thin films. Optical Materials, 1992, 1, 85-89.	3.6	8
50	Derivative spectra of polycrystalline Zn3P2 thin films. Solid State Communications, 1991, 78, 149-151.	1.9	21
51	Optical studies on electron-beam-deposited Zn3P2 thin films. Journal of Materials Science Letters, 1991, 10, 403-405.	0.5	9
52	Rollover Crash Analysis of the RTV Using Madymo. , 0, , .		6
53	Spectral and temporal performance enhancement in a symmetric co-planar Auâ€“Ge/AlGaAs/Auâ€“Ge natural superlattice-based MSM photodetector. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	0