

Rabindranath Gayen

List of Publications by Year in descending order

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33
papers

661
citations

567281

15
h-index

552781

26
g-index

33
all docs

33
docs citations

33
times ranked

889
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of DLC films with different sp^2/sp^3 ratios and their hydrophobic behaviour. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 055309.	2.8	104
2	Enhanced UV detection by transparent graphene oxide/ZnO composite thin films. <i>RSC Advances</i> , 2016, 6, 61661-61672.	3.6	92
3	Determination of optical constants of thin films from transmittance trace. <i>Thin Solid Films</i> , 2009, 517, 5530-5536.	1.8	49
4	Effect of series and shunt resistance on the photovoltaic properties of solution-processed zinc oxide nanowire based CZTS solar cell in superstrate configuration. <i>Materials Science in Semiconductor Processing</i> , 2019, 100, 1-7.	4.0	36
5	Zinc magnesium oxide nanofibers on glass substrate by solution growth technique. <i>Journal of Crystal Growth</i> , 2008, 310, 4073-4080.	1.5	29
6	Ni-doped vertically aligned zinc oxide nanorods prepared by hybrid wet chemical route. <i>Thin Solid Films</i> , 2010, 518, 1627-1636.	1.8	27
7	Electrical characteristics and rectification performance of wet chemically synthesized vertically aligned n-ZnO nanowire/p-Si heterojunction. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 115102.	2.8	27
8	Synthesis and characterization of composite films of silver nanoparticles embedded in DLC matrix prepared by plasma CVD technique. <i>EPJ Applied Physics</i> , 2009, 47, 10502.	0.7	26
9	Modulation of field emission properties of vertically aligned ZnO nanorods with aspect ratio and number density. <i>Applied Surface Science</i> , 2009, 255, 4902-4906.	6.1	24
10	Room temperature ferromagnetism in Mn-doped zinc oxide nanorods prepared by hybrid wet chemical route. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7259-7266.	5.5	23
11	Distribution of relaxation time in solution-processed polycrystalline CZTS thin films: Study of impedance spectroscopy. <i>Ceramics International</i> , 2018, 44, 14095-14100.	4.8	23
12	Interfacial effects on ferroelectric and dielectric properties of GO reinforced free-standing and flexible PVDF/ZnO composite membranes: Bias dependent impedance spectroscopy. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155974.	5.5	23
13	Vertically Aligned Al-Doped ZnO Nanowire Arrays as Efficient Photoanode for Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2020, 49, 3860-3868.	2.2	22
14	Nanocrystalline $Zn_{1-x}Mn_xO$ thin film based transparent Schottky diodes. <i>Thin Solid Films</i> , 2016, 605, 248-256.	1.8	21
15	Phosphorous doping in vertically aligned ZnO nanorods grown by wet-chemical method. <i>Nano Structures Nano Objects</i> , 2018, 13, 163-169.	3.5	17
16	Complex impedance spectroscopy of Mn-doped zinc oxide nanorod films. <i>Solid State Communications</i> , 2011, 151, 1182-1187.	1.9	15
17	Temperature dependent current transport of Pd/ZnO nanowire Schottky diodes. <i>Semiconductor Science and Technology</i> , 2014, 29, 095022.	2.0	15
18	Aligned Zinc Oxide nanorods by hybrid wet chemical route and their field emission properties. <i>Thin Solid Films</i> , 2008, 516, 8219-8226.	1.8	14

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19	Vertically aligned Mn-doped zinc oxide nanorods by hybrid wet chemical route. Materials Chemistry and Physics, 2010, 123, 138-146.	4.0	10
20	Growth of carbon nanofibers on aligned zinc oxide nanorods and their field emission properties. Applied Surface Science, 2010, 256, 6172-6178.	6.1	10
21	Synthesis and characterization of indium phosphide films prepared by co-evaporation technique. Vacuum, 2012, 86, 1240-1247.	3.5	9
22	Indium phosphide films prepared by flash evaporation technique: Synthesis and characterization. Thin Solid Films, 2010, 518, 3595-3603.	1.8	8
23	Optical properties of Si-doped GaN nanocrystals in SiO ₂ /GaN/SiO ₂ thin film structure. Journal Physics D: Applied Physics, 2009, 42, 135402.	2.8	6
24	ZnO/Ti Thin Film: Synthesis, Characterization and Methane Gas Sensing Property. Journal of Physics: Conference Series, 2012, 390, 012065.	0.4	6
25	Tetramethylammonium based lead free perovskite active layer for solar cell application. Ceramics International, 2019, 45, 17438-17441.	4.8	6
26	Two-source coevaporation technique for synthesis of indium phosphide films with controlled composition. Journal of Alloys and Compounds, 2012, 531, 34-40.	5.5	5
27	Single-Step Synthesis and Optical Properties of Bimetallic Fe@Ag Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 666-670.	0.9	4
28	Effect of grain-grain boundary on ZnO nanorod-based UV photosensor: a complex impedance spectroscopic study. Journal of Materials Science, 2021, 56, 19128-19143.	3.7	4
29	Carbon-based integrated devices for efficient photo-energy conversion and storage. , 2019, , 357-374.		2
30	Single phase formation of Fe-doped directional ZnO nanorod films: Study of cluster formation by complex impedance spectroscopy and removal of metal clustering by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 73-79.	1.4	2
31	Fabrication and characterization of transparent nanocrystalline ZnO thin film transistors by a sol-gel technique. Bulletin of Materials Science, 2019, 42, .	1.7	1
32	Highly transparent graphene oxide composited TiO ₂ thin film as efficient photoanode for dye-sensitized solar cells. AIP Conference Proceedings, 2021, , .	0.4	1
33	DC bias dependent impedance spectroscopic study of polycrystalline copper oxide thin films. AIP Conference Proceedings, 2021, , .	0.4	0