Rabindranath Gayen

List of Publications by Year
in descending order

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	DC bias dependent impedance spectroscopic study of polycrystalline copper oxide thin films. AIP Conference Proceedings, 2021, , .	0.4	0
2	Highly transparent graphene oxide composited TiO2 thin film as efficient photoanode for dye-sensitized solar cells. AIP Conference Proceedings, 2021, , .	0.4	1
3	Effect of grainâ€“grain boundary on ZnO nanorod-based UV photosensor: a complex impedance spectroscopic study. Journal of Materials Science, 2021, 56, 19128-19143.	3.7	4
4	Interfacial effects on ferroelectric and dielectric properties of GO reinforced free-standing and flexible PVDF/ZnO composite membranes: Bias dependent impedance spectroscopy. Journal of Alloys and Compounds, 2020, 843, 155974.	5.5	23
5	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
6	Vertically Aligned Al-Doped ZnO Nanowire Arrays as Efficient Photoanode for Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2020, 49, 3860-3868.	2.2	22
7	Carbon-based integrated devices for efficient photo-energy conversion and storage. , 2019, , 357-374.		2
8	Fabrication and characterization of transparent nanocrystalline ZnO thin film transistors by a solâ€“gel technique. Bulletin of Materials Science, 2019, 42, .	1.7	1
9	Tetramethylammonium based lead free perovskite active layer for solar cell application. Ceramics International, 2019, 45, 17438-17441.	4.8	6
10	Effect of series and shunt resistance on the photovoltaic properties of solution-processed zinc oxide nanowire based CZTS solar cell in superstrate configuration. Materials Science in Semiconductor Processing, 2019, 100, 1-7.	4.0	36
11	Distribution of relaxation time in solution-processed polycrystalline CZTS thin films: Study of impedance spectroscopy. Ceramics International, 2018, 44, 14095-14100.	4.8	23
12	Phosphorous doping in vertically aligned ZnO nanorods grown by wet-chemical method. Nano Structures Nano Objects, 2018, 13, 163-169.	3.5	17
13	Single-Step Synthesis and Optical Properties of Bimetallic Feâ€“Ag Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 666-670.	0.9	4
14	Enhanced UV detection by transparent graphene oxide/ZnO composite thin films. RSC Advances, 2016, 6, 61661-61672.	3.6	92
15	Nanocrystalline Zn1â^'xMnxO thin film based transparent Schottky diodes. Thin Solid Films, 2016, 605, 248-256.	1.8	21
16	Electrical characteristics and rectification performance of wet chemically synthesized vertically aligned n-ZnO nanowire/p-Si heterojunction. Journal Physics D: Applied Physics, 2016, 49, 115102.	2.8	27
17	Temperature dependent current transport of Pd/ZnO nanowire Schottky diodes. Semiconductor Science and Technology, 2014, 29, 095022.	2.0	15
18	ZnO/Ti Thin Film: Synthesis, Characterization and Methane Gas Sensing Property. Journal of Physics: Conference Series, 2012, 390, 012065.	0.4	6

#	Article	IF	Citations
19	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
20	Synthesis and characterization of indium phosphide films prepared by co-evaporation technique. Vacuum, 2012, 86, 1240-1247.	3.5	9
21	Room temperature ferromagnetism in Mn-doped zinc oxide nanorods prepared by hybrid wet chemical route. Journal of Alloys and Compounds, 2011, 509, 7259-7266.	5.5	23
22	Complex impedance spectroscopy of Mn-doped zinc oxide nanorod films. Solid State Communications, 2011, 151, 1182-1187.	1.9	15
23	Vertically aligned Mn-doped zinc oxide nanorods by hybrid wet chemical route. Materials Chemistry and Physics, 2010, 123, 138-146.	4.0	10
24	Growth of carbon nanofibers on aligned zinc oxide nanorods and their field emission properties. Applied Surface Science, 2010, 256, 6172-6178.	6.1	10
25	Indium phosphide films prepared by flash evaporation technique: Synthesis and characterization. Thin Solid Films, 2010, 518, 3595-3603.	1.8	8
26	Ni-doped vertically aligned zinc oxide nanorods prepared by hybrid wet chemical route. Thin Solid Films, 2010, 518, 1627-1636.	1.8	27
27	Optical properties of Si-doped GaN nanocrystals in SiO₂/GaN/SiO₂thin film structure. Journal Physics D: Applied Physics, 2009, 42, 135402.	2.8	6
28	Determination of optical constants of thin films from transmittance trace. Thin Solid Films, 2009, 517, 5530-5536.	1.8	49
29	Modulation of field emission properties of vertically aligned ZnO nanorods with aspect ratio and number density. Applied Surface Science, 2009, 255, 4902-4906.	6.1	24
30	Synthesis and characterization of composite films of silver nanoparticles embedded in DLC matrix prepared by plasma CVD technique. EPJ Applied Physics, 2009, 47, 10502.	0.7	26
31	Aligned Zinc Oxide nanorods by hybrid wet chemical route and their field emission properties. Thin Solid Films, 2008, 516, 8219-8226.	1.8	14
32	Zinc magnesium oxide nanofibers on glass substrate by solution growth technique. Journal of Crystal Growth, 2008, 310, 4073-4080.	1.5	29
33	Synthesis of DLC films with different sp²/sp³ratios and their hydrophobic behaviour. Journal Physics D: Applied Physics, 2008, 41, 055309.	2.8	104