

D Bharathi Mohan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

479
citations

687363

13
h-index

713466

21
g-index

37
all docs

37
docs citations

37
times ranked

482
citing authors

#	ARTICLE	IF	CITATIONS
1	Ag/ZnO/Au 3D hybrid structured reusable SERS substrate as highly sensitive platform for DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 157-169.	7.8	82
2	Surface plasmon-exciton transition in ultra-thin silver and silver iodide films. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 59-63.	2.2	34
3	The effect of in-situ and post deposition annealing towards the structural optimization studies of RF sputtered SnS and Sn ₂ S ₃ thin films for solar cell application. <i>Solar Energy</i> , 2019, 189, 207-218.	6.1	33
4	Structural, morphological and optical properties of Ag-AgO thin films with the effect of increasing film thickness and annealing temperature. <i>Optical Materials</i> , 2015, 48, 121-132.	3.6	32
5	SERS enhancement, sensitivity and homogeneity studies on bi-metallic Ag-Cu films through tuning of broad band SPR towards red region. <i>Journal of Alloys and Compounds</i> , 2017, 698, 460-468.	5.5	30
6	Structural, optical and electrical studies of DC-RF magnetron co-sputtered Cu, In & Ag doped SnS thin films for photovoltaic applications. <i>Solar Energy</i> , 2019, 194, 61-73.	6.1	30
7	The formation of β -phase SnS nanorods by PVP assisted polyol synthesis: Phase stability, micro structure, thermal stability and defects induced energy band transitions. <i>Materials Chemistry and Physics</i> , 2017, 192, 317-329.	4.0	29
8	Iodization of rf sputter induced disordered Ag thin films reveals volume plasmon-exciton transition. <i>Journal of Applied Physics</i> , 2006, 100, 064314.	2.5	23
9	Phase optimization study of orthorhombic structured SnS nanorods from CTAB assisted polyol synthesis for higher efficiency thin film solar cells. <i>Solar Energy</i> , 2018, 174, 373-385.	6.1	19
10	Ultra-sensitive, reusable, and superhydrophobic Ag/ZnO/Ag 3D hybrid surface enhanced Raman scattering substrate for hemoglobin detection. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	19
11	Study of NBE emission enhancement with an absence of DL emission from ZnO nanorods through controlled growth on ultra-thin Ag films. <i>Applied Surface Science</i> , 2015, 333, 244-253.	6.1	18
12	The formation of β -phase SnS nanostructure from a hybrid, multi-layered S/Sn/S/S thin films: Phase stability, surface morphology and optical studies. <i>Applied Surface Science</i> , 2017, 423, 1111-1123.	6.1	17
13	Intrinsic Paramagnetic Defects Probe the Superionic Phase Transition in Mechanochemically Synthesized AgI Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4569-4575.	2.6	14
14	Enhancement of optoelectronic properties via substitutional doping of Cu, in and Ag in SnS nanorods for thin film photovoltaics. <i>Solar Energy</i> , 2020, 205, 446-455.	6.1	14
15	Fabrication of silver and silver-copper bimetal thin films using co-sputtering for SERS applications. <i>Optical Materials</i> , 2019, 97, 109381.	3.6	11
16	Fabrication and phase characterization study of SnS thin films under controlled sulfur deposition temperature. <i>Materials Today: Proceedings</i> , 2016, 3, 2077-2084.	1.8	10
17	Fabrication of partially oxidized ultra-thin nanocrystalline silver films: effect of surface plasmon resonance on fluorescence quenching and surface enhanced Raman scattering. <i>Materials Research Express</i> , 2014, 1, 025014.	1.6	9
18	Multi-angle ZnO microstructures grown on Ag nanorods array for plasmon-enhanced near-UV-blue light emitter. <i>Nanotechnology</i> , 2017, 28, 415707.	2.6	8

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19	The formation of orthorhombic SnS nanorods using CTAB in solvothermal method with its phase stability, optical and electrical properties. Materials Research Bulletin, 2020, 128, 110883.	5.2	8
20	Optics of quasi-particle phase transitions in nanostructured Ag thin films. Thin Solid Films, 2008, 517, 1058-1062.	1.8	7
21	Study of quasi-amorphous to nanocrystalline phase transition in thermally evaporated CuInS ₂ thin films. Journal of Materials Research, 2014, 29, 542-555.	2.6	7
22	The phase optimization, optical and electrical properties of kesterite Cu ₂ ZnSnS ₄ thin film prepared by single target RF magnetron sputtering technique for solar cell application. Materials Research Express, 2019, 6, 126457.	1.6	7
23	Effect of Sn Doping on the Growth and Optical Properties of AgI Nanoparticles. Journal of Nanoscience and Nanotechnology, 2005, 5, 1514-1518.	0.9	4
24	Characterization studies of heavily doped Ag-SnS thin films prepared by magnetron co-sputtering technique. Materials Today: Proceedings, 2020, 26, 108-113.	1.8	3
25	Investigation of broad-band optical absorption and electrical properties in vacuum annealed CZTS/Ag multi-layered stack structure for plasmonic solar cell application. Optical Materials, 2022, 127, 112316.	3.6	3
26	Electronic conductivity of mechanochemically synthesized nanocrystalline Ag _{1-x} Cu _x I system using DC polarization technique. Pramana - Journal of Physics, 2006, 67, 331-340.	1.8	2
27	Phase Transitions of AgI-CuI Nanosystem in the Aniya-Ichihara Theory. , 2011, , .		1
28	ZnO/Ag composite nanorod arrays for surface-plasmon-enhanced emission study. , 2014, , .		1
29	Label free detection of DNA on Au/ZnO/Ag hybrid structure based SERS substrate. AIP Conference Proceedings, 2016, , .	0.4	1
30	Optimisation study on few layer formations of MoS ₂ thin films by a novel sulfurization method. AIP Conference Proceedings, 2019, , .	0.4	1
31	Study of plasmonic effect in Cu ₂ ZnSnS ₄ -Ag nanocomposite thin film fabricated by vacuum thermal co-evaporation. AIP Conference Proceedings, 2019, , .	0.4	1
32	Temperature-assisted mechanochemically synthesized Cu and In doped SnS nanoparticles for thin film photovoltaics: Structure, phase stability and optoelectronic properties. Optik, 2021, 240, 166848.	2.9	1
33	EPR OF SUPERIONIC PHASE TRANSITION IN Cu-STABILIZED NANOCRYSTALLINE \hat{I}^3 -AgI. Modern Physics Letters B, 2006, 20, 1669-1675.	1.9	0
34	Study of NBE emission enhancement of ZnO nanorods by changing the surface property of ultrathin Ag interlayer. , 2014, , .		0
35	Fabrication of Plasmonically Active Ag Thin Films in the Region of Quasi-amorphous to Nanocrystalline and its Application towards SERS. Materials Today: Proceedings, 2015, 2, 4436-4441.	1.8	0
36	Sputter deposited ultrathin Al ₂ O ₃ protected silver nanoislands film as an oxidation resistant SERS substrate. AIP Conference Proceedings, 2020, , .	0.4	0

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37	The tuning of broad-band absorption in the visible range from plasmonic CZTS-Ag multilayer thin film for solar cell application. AIP Conference Proceedings, 2020, , .	0.4	0