

Ganesh Agawane

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55
papers

2,329
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29
h-index

47
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57
ext. papers

2,575
ext. citations

4.9
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L-index

#	Paper	IF	Citations
55	CZTS based thin film solar cells: a status review. <i>Materials Technology</i> , 2013 , 28, 98-109	2.1	217
54	A review on pulsed laser deposited CZTS thin films for solar cell applications. <i>Journal of Alloys and Compounds</i> , 2015 , 619, 109-121	5.7	164
53	Studies of compositional dependent CZTS thin film solar cells by pulsed laser deposition technique: An attempt to improve the efficiency. <i>Journal of Alloys and Compounds</i> , 2012 , 544, 145-151	5.7	113
52	Gas sensing properties of hydrothermally grown ZnO nanorods with different aspect ratios. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 439-445	8.5	108
51	Room temperature chemical synthesis of Cu(OH) ₂ thin films for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2013 , 573, 27-31	5.7	89
50	Electrosynthesis of CZTS films by sulfurization of CZT precursor: Effect of soft annealing treatment. <i>Applied Surface Science</i> , 2013 , 283, 74-80	6.7	88
49	Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO ₂ sensor. <i>Chemical Engineering Journal</i> , 2016 , 286, 36-47	14.7	85
48	Fabrication of Cu ₂ SnS ₃ thin film solar cells using pulsed laser deposition technique. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 138, 1-8	6.4	80
47	Thickness dependent H ₂ S sensing properties of nanocrystalline ZnO thin films derived by advanced spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 695-702	8.5	75
46	Novel method for fabrication of room temperature polypyrrole/ZnO nanocomposite NO ₂ sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012 , 45, 1989-1996	4.6	75
45	Effect of post-annealing atmosphere on the grain-size and surface morphological properties of pulsed laser deposited CZTS thin films. <i>Ceramics International</i> , 2014 , 40, 15097-15103	5.1	69
44	Improved photoelectrochemical performance of Cu ₂ ZnSnS ₄ (CZTS) thin films prepared using modified successive ionic layer adsorption and reaction (SILAR) sequence. <i>Electrochimica Acta</i> , 2014 , 150, 136-145	6.7	66
43	Structural, optical and electrical properties of chemically sprayed nanosized gallium doped CdO thin films. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 357-363	5.7	56
42	Non-vacuum mechanochemical route to the synthesis of Cu ₂ SnS ₃ nano-ink for solar cell applications. <i>Acta Materialia</i> , 2015 , 85, 314-321	8.4	51
41	Fabrication of 3.01% power conversion efficient high-quality CZTS thin film solar cells by a green and simple sol-gel technique. <i>Materials Letters</i> , 2015 , 158, 58-61	3.3	51
40	Influence of deposition temperature on morphological, optical, electrical and opto-electrical properties of highly textured nano-crystalline spray deposited CdO:Ga thin films. <i>Applied Surface Science</i> , 2010 , 257, 93-101	6.7	50
39	Preparation and characteristics of chemical bath deposited ZnS thin films: Effects of different complexing agents. <i>Journal of Alloys and Compounds</i> , 2012 , 526, 25-30	5.7	49

38	Non-toxic complexing agent Tri-sodium citrate effect on chemical bath deposited ZnS thin films and its growth mechanism. <i>Journal of Alloys and Compounds</i> , 2012 , 535, 53-61	5.7	49
37	Cu ₂ ZnSnS ₄ (CZTS)-based room temperature liquefied petroleum gas (LPG) sensor. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 408-413	8.5	44
36	Design and Growth of Quaternary Mg and Ga Codoped ZnO Thin Films with Transparent Conductive Characteristics. <i>Crystal Growth and Design</i> , 2011 , 11, 4819-4824	3.5	43
35	Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness. <i>Journal of Colloid and Interface Science</i> , 2015 , 451, 245-54	9.3	42
34	A facile and low-cost synthesis of promising absorber materials on Cu ₂ ZnSn(S _x Se _{1-x}) ₄ nanocrystals consisting of earth abundant elements with tunable band gap characteristics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21727		40
33	Temperature dependent structural, luminescent and XPS studies of CdO:Ga thin films deposited by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 794-799	5.7	40
32	Facile method of synthesis of polyaniline-SnO ₂ hybrid nanocomposites: Microstructural, optical and electrical transport properties. <i>Synthetic Metals</i> , 2013 , 178, 1-9	3.6	39
31	A facile and low cost synthesis of earth abundant element Cu ₂ ZnSnS ₄ (CZTS) nanocrystals: Effect of Cu concentrations. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 192-197	5.7	39
30	A chemical approach for synthesis of photoelectrochemically active Cu ₂ ZnSnS ₄ (CZTS) thin films. <i>Solar Energy</i> , 2014 , 110, 221-230	6.8	38
29	Next generation promising Cu ₂ (Zn _x Fe _{1-x})SnS ₄ photovoltaic absorber material prepared by pulsed laser deposition technique. <i>Materials Letters</i> , 2014 , 137, 147-149	3.3	36
28	Pulsed electrodeposited CZTS thin films: Effect of duty cycle. <i>Materials Letters</i> , 2013 , 108, 316-319	3.3	34
27	Structural, Optical, Electrical, and Dielectric Properties of the Spray-Deposited WO ₃ Thin Films. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1204-1213	1.6	30
26	Synthesis of simple, low cost and benign sol-gel Cu ₂ ZnSnS ₄ thin films: influence of different annealing atmospheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1900-1907	2.1	29
25	Green route fast synthesis and characterization of chemical bath deposited nanocrystalline ZnS buffer layers. <i>Current Applied Physics</i> , 2013 , 13, 850-856	2.6	29
24	Simplistic toxic to non-toxic hydrothermal route to synthesize Cu ₂ ZnSnS ₄ nanoparticles for solar cell applications. <i>Solar Energy</i> , 2015 , 122, 1146-1153	6.8	24
23	Monodispersed wurtzite Cu ₂ SnS ₃ nanocrystals by phosphine and oleylamine free facile heat-up technique. <i>CrystEngComm</i> , 2016 , 18, 2885-2893	3.3	22
22	The synergistic influence of anionic bath immersion time on the photoelectrochemical performance of CZTS thin films prepared by a modified SILAR sequence. <i>RSC Advances</i> , 2014 , 4, 18537	3.7	21
21	Spectroscopic properties of Er ³⁺ /Yb ³⁺ co-doped fluorophosphate glasses for NIR luminescence and optical temperature sensor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 67, 236-243	6.3	20

20	Photoluminescence quenching of a CdS nanoparticles/ZnO nanorods core-shell heterogeneous film and its improved photovoltaic performance. <i>Optical Materials</i> , 2014 , 37, 766-772	3.3	19
19	Kesterite CZTS nanocrystals: pH-dependent synthesis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1531-1534	1.6	19
18	Development of transparent conductive Mg and Ga co-doped ZnO thin films: Effect of Mg concentration. <i>Surface and Coatings Technology</i> , 2013 , 231, 364-369	4.4	18
17	Longer lifetime of Er ³⁺ /Yb ³⁺ co-doped fluorophosphate glasses for optical amplifier applications. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 65-71	3.9	17
16	Sulfur ion concentration dependent morphological evolution of CdS thin films and its subsequent effect on photo-electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28024-28032	3.6	16
15	Fabrication of Cu ₂ (Zn _x Mg _{1-x})SnS ₄ thin films by pulsed laser deposition technique for solar cell applications. <i>Materials Science in Semiconductor Processing</i> , 2018 , 76, 50-54	4.3	15
14	Non-toxic novel route synthesis and characterization of nanocrystalline ZnS _x Se _{1-x} thin films with tunable band gap characteristics. <i>Materials Research Bulletin</i> , 2014 , 55, 106-113	5.1	15
13	Studies on the effect of nozzle-to-substrate distance on the structural, electrical and optical properties of spray deposited CdIn ₂ O ₄ thin films. <i>Applied Surface Science</i> , 2010 , 256, 3522-3530	6.7	14
12	Study on the effects of different sulfur vaporization temperature on the properties of CuInS ₂ thin films. <i>Applied Surface Science</i> , 2013 , 270, 572-577	6.7	13
11	Novel reduced toxic route synthesis and characterization of chemical bath deposited ZnSe thin films. <i>Ceramics International</i> , 2014 , 40, 367-374	5.1	11
10	Preparation and characterization of chemical bath deposited nanocrystalline ZnSe thin films using Na ₃ -citrate and hydrazine hydrate: A comparative study. <i>Materials Letters</i> , 2013 , 106, 186-189	3.3	11
9	Opto-structural and electrical properties of chemically grown Ga doped MoBi ₂ Se ₅ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 4669-4676	2.1	10
8	Low temperature epitaxial growth and characterization of Ga-doped ZnO thin films on Al ₂ O ₃ (0001) substrates prepared with different buffer layers. <i>Applied Surface Science</i> , 2012 , 258, 5073-5079	6.7	9
7	A Promising Modified SILAR Sequence for the Synthesis of Photoelectrochemically Active Cu ₂ ZnSnS ₄ (CZTS) Thin Films. <i>Israel Journal of Chemistry</i> , 2015 , 55, 1098-1102	3.4	8
6	Effects of Cu/In compositional ratio on the characteristics of CuInS ₂ absorber layers prepared by sulfurization of metallic precursors. <i>Electronic Materials Letters</i> , 2012 , 8, 191-197	2.9	7
5	Thermo-mechanical studies on Er ³⁺ -doped fluorophosphate glasses for near infrared lasers. <i>Ceramics International</i> , 2017 , 43, 11177-11181	5.1	6
4	The green hydrothermal synthesis of nanostructured Cu ₂ ZnSnSe ₄ as solar cell material and study of their structural, optical and morphological properties. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
3	Correlation between soft annealing conditions and structural, microstructural, morphological, and optical properties of CuInS ₂ thin films prepared by sulfurization of stacked precursor. <i>Journal of Crystal Growth</i> , 2014 , 394, 49-54	1.6	5

- 2 Studies on the Controlling of the Microstructural and Morphological Properties of Al Doped ZnO Thin Films Prepared by Hydrothermal Method. *Japanese Journal of Applied Physics*, **2013**, 52, 10MA06 1.4 3
- 1 Fabrication of 5.2% efficient $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ solar cells using DC-sputtered metal precursors followed by sulfo-selenization. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 708-712 2