

# Ganesh Agawane

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/727564/ganesh-agawane-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

2,329  
citations

29  
h-index

47  
g-index

57  
ext. papers

2,575  
ext. citations

4.9  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
55	Fabrication of Cu <sub>2</sub> (Zn <sub>x</sub> Mg <sub>1-x</sub> )SnS <sub>4</sub> thin films by pulsed laser deposition technique for solar cell applications. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 76, 50-54	4.3	15
54	Spectroscopic properties of Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped fluorophosphate glasses for NIR luminescence and optical temperature sensor applications. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 67, 236-243	6.3	20
53	Thermo-mechanical studies on Er <sup>3+</sup> -doped fluorophosphate glasses for near infrared lasers. <i>Ceramics International</i> , <b>2017</b> , 43, 11177-11181	5.1	6
52	Longer lifetime of Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped fluorophosphate glasses for optical amplifier applications. <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 471, 65-71	3.9	17
51	The green hydrothermal synthesis of nanostructured Cu <sub>2</sub> ZnSnSe <sub>4</sub> as solar cell material and study of their structural, optical and morphological properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	6
50	Sulfur ion concentration dependent morphological evolution of CdS thin films and its subsequent effect on photo-electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 28024-28032	3.6	16
49	Monodispersed wurtzite Cu <sub>2</sub> SnS <sub>3</sub> nanocrystals by phosphine and oleylamine free facile heat-up technique. <i>CrystEngComm</i> , <b>2016</b> , 18, 2885-2893	3.3	22
48	Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO <sub>2</sub> sensor. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 36-47	14.7	85
47	Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 451, 245-54	9.3	42
46	Fabrication of Cu <sub>2</sub> SnS <sub>3</sub> thin film solar cells using pulsed laser deposition technique. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 138, 1-8	6.4	80
45	Simplistic toxic to non-toxic hydrothermal route to synthesize Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles for solar cell applications. <i>Solar Energy</i> , <b>2015</b> , 122, 1146-1153	6.8	24
44	Non-vacuum mechanochemical route to the synthesis of Cu <sub>2</sub> SnS <sub>3</sub> nano-ink for solar cell applications. <i>Acta Materialia</i> , <b>2015</b> , 85, 314-321	8.4	51
43	A review on pulsed laser deposited CZTS thin films for solar cell applications. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 109-121	5.7	164
42	A Promising Modified SILAR Sequence for the Synthesis of Photoelectrochemically Active Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Thin Films. <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 1098-1102	3.4	8
41	Fabrication of 5.2% efficient Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells using DC-sputtered metal precursors followed by sulfo-selenization. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2015</b> , 12, 708-712		2
40	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> , <b>2015</b> , 158, 58-61	3.3	51
39	Synthesis of simple, low cost and benign sol-gel Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films: influence of different annealing atmospheres. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 1900-1907	2.1	29

38	Structural, Optical, Electrical, and Dielectric Properties of the Spray-Deposited WO <sub>3</sub> Thin Films. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1204-1213	1.6	30
37	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> , <b>2014</b> , 4, 18537	3.7	21
36	Improved photoelectrochemical performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) thin films prepared using modified successive ionic layer adsorption and reaction (SILAR) sequence. <i>Electrochimica Acta</i> , <b>2014</b> , 150, 136-145	6.7	66
35	Photoluminescence quenching of a CdS nanoparticles/ZnO nanorods core-shell heterogeneous film and its improved photovoltaic performance. <i>Optical Materials</i> , <b>2014</b> , 37, 766-772	3.3	19
34	Next generation promising Cu <sub>2</sub> (Zn <sub>x</sub> Fe <sub>1-x</sub> )SnS <sub>4</sub> photovoltaic absorber material prepared by pulsed laser deposition technique. <i>Materials Letters</i> , <b>2014</b> , 137, 147-149	3.3	36
33	A chemical approach for synthesis of photoelectrochemically active Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) thin films. <i>Solar Energy</i> , <b>2014</b> , 110, 221-230	6.8	38
32	Effect of post-annealing atmosphere on the grain-size and surface morphological properties of pulsed laser deposited CZTS thin films. <i>Ceramics International</i> , <b>2014</b> , 40, 15097-15103	5.1	69
31	Non-toxic novel route synthesis and characterization of nanocrystalline Zn <sub>x</sub> Se <sub>1-x</sub> thin films with tunable band gap characteristics. <i>Materials Research Bulletin</i> , <b>2014</b> , 55, 106-113	5.1	15
30	Kesterite CZTS nanocrystals: pH-dependent synthesis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 1531-1534	1.6	19
29	Gas sensing properties of hydrothermally grown ZnO nanorods with different aspect ratios. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 190, 439-445	8.5	108
28	Novel reduced toxic route synthesis and characterization of chemical bath deposited ZnSe thin films. <i>Ceramics International</i> , <b>2014</b> , 40, 367-374	5.1	11
27	Correlation between soft annealing conditions and structural, microstructural, morphological, and optical properties of CuInS <sub>2</sub> thin films prepared by sulfurization of stacked precursor. <i>Journal of Crystal Growth</i> , <b>2014</b> , 394, 49-54	1.6	5
26	Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS)-based room temperature liquefied petroleum gas (LPG) sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 190, 408-413	8.5	44
25	Electrosynthesis of CZTS films by sulfurization of CZT precursor: Effect of soft annealing treatment. <i>Applied Surface Science</i> , <b>2013</b> , 283, 74-80	6.7	88
24	Development of transparent conductive Mg and Ga co-doped ZnO thin films: Effect of Mg concentration. <i>Surface and Coatings Technology</i> , <b>2013</b> , 231, 364-369	4.4	18
23	Facile method of synthesis of polyaniline-SnO <sub>2</sub> hybrid nanocomposites: Microstructural, optical and electrical transport properties. <i>Synthetic Metals</i> , <b>2013</b> , 178, 1-9	3.6	39
22	Room temperature chemical synthesis of Cu(OH) <sub>2</sub> thin films for supercapacitor application. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 573, 27-31	5.7	89
21	Study on the effects of different sulfur vaporization temperature on the properties of CuInS <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2013</b> , 270, 572-577	6.7	13

20	Pulsed electrodeposited CZTS thin films: Effect of duty cycle. <i>Materials Letters</i> , <b>2013</b> , 108, 316-319	3.3	34
19	Opto-structural and electrical properties of chemically grown Ga doped MoBi <sub>2</sub> Se <sub>5</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4669-4676	2.1	10
18	CZTS based thin film solar cells: a status review. <i>Materials Technology</i> , <b>2013</b> , 28, 98-109	2.1	217
17	Thickness dependent H <sub>2</sub> S sensing properties of nanocrystalline ZnO thin films derived by advanced spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 695-702	8.5	75
16	Green route fast synthesis and characterization of chemical bath deposited nanocrystalline ZnS buffer layers. <i>Current Applied Physics</i> , <b>2013</b> , 13, 850-856	2.6	29
15	Preparation and characterization of chemical bath deposited nanocrystalline ZnSe thin films using Na <sub>3</sub> -citrate and hydrazine hydrate: A comparative study. <i>Materials Letters</i> , <b>2013</b> , 106, 186-189	3.3	11
14	Studies on the Controlling of the Microstructural and Morphological Properties of Al Doped ZnO Thin Films Prepared by Hydrothermal Method. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 10MA06	1.4	3
13	A facile and low cost synthesis of earth abundant element Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanocrystals: Effect of Cu concentrations. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 541, 192-197	5.7	39
12	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> , <b>2012</b> , 544, 145-151	5.7	113
11	Low temperature epitaxial growth and characterization of Ga-doped ZnO thin films on Al <sub>2</sub> O <sub>3</sub> (0001) substrates prepared with different buffer layers. <i>Applied Surface Science</i> , <b>2012</b> , 258, 5073-5079	6.7	9
10	Preparation and characteristics of chemical bath deposited ZnS thin films: Effects of different complexing agents. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 526, 25-30	5.7	49
9	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> , <b>2012</b> , 535, 53-61	5.7	49
8	Novel method for fabrication of room temperature polypyrrole/ZnO nanocomposite NO <sub>2</sub> sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2012</b> , 45, 1989-1996	4.6	75
7	A facile and low-cost synthesis of promising absorber materials on Cu <sub>2</sub> ZnSn(S <sub>x</sub> Se <sub>1-x</sub> ) <sub>4</sub> nanocrystals consisting of earth abundant elements with tunable band gap characteristics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21727		40
6	Effects of Cu/In compositional ratio on the characteristics of CuInS <sub>2</sub> absorber layers prepared by sulfurization of metallic precursors. <i>Electronic Materials Letters</i> , <b>2012</b> , 8, 191-197	2.9	7
5	Design and Growth of Quaternary Mg and Ga Codoped ZnO Thin Films with Transparent Conductive Characteristics. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4819-4824	3.5	43
4	Structural, optical and electrical properties of chemically sprayed nanosized gallium doped CdO thin films. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 357-363	5.7	56
3	Temperature dependent structural, luminescent and XPS studies of CdO:Ga thin films deposited by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 794-799	5.7	40

2	Studies on the effect of nozzle-to-substrate distance on the structural, electrical and optical properties of spray deposited CdIn <sub>2</sub> O <sub>4</sub> thin films. <i>Applied Surface Science</i> , <b>2010</b> , 256, 3522-3530	6.7	14
1	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> , <b>2010</b> , 257, 93-101	6.7	50