

Santhosh Kumar M C

List of Publications by Year in descending order

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times ranked

2233
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#	ARTICLE	IF	CITATIONS
1	Effect of thickness on structural, optical and electrical properties of nanostructured ZnO thin films by spray pyrolysis. <i>Applied Surface Science</i> , 2009, 255, 4579-4584.	6.1	201
2	Physical properties of ZnO thin films deposited at various substrate temperatures using spray pyrolysis. <i>Physica B: Condensed Matter</i> , 2010, 405, 2226-2231.	2.7	155
3	Co-evaporated SnS thin films for visible light photodetector applications. <i>RSC Advances</i> , 2016, 6, 95680-95692.	3.6	134
4	Effect of stress on optical band gap of ZnO thin films with substrate temperature by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2009, 485, 413-417.	5.5	128
5	Physical properties of Ga-doped ZnO thin films by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2010, 506, 788-793.	5.5	128
6	Deposition and characterization of Cu ₂ SnS ₃ thin films by co-evaporation for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 128-134.	6.2	68
7	Highly oriented (100) ZnO thin films by spray pyrolysis. <i>Applied Surface Science</i> , 2009, 255, 7212-7215.	6.1	67
8	Effects of thickness and atmospheric annealing on structural, electrical and optical properties of GZO thin films by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2012, 541, 495-504.	5.5	67
9	The role of substrate temperature on the properties of nanocrystalline Mo doped ZnO thin films by spray pyrolysis. <i>Ceramics International</i> , 2012, 38, 3875-3883.	4.8	62
10	Microstructural, electrical and optical properties of ZnO:Mo thin films with various thickness by spray pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 102, 68-75.	5.5	59
11	Effect of substrate temperature on the physical properties of co-evaporated Sn ₂ S ₃ thin films. <i>Ceramics International</i> , 2016, 42, 12262-12269.	4.8	50
12	Structural, electrical and optical properties of silver selenide thin films. <i>Semiconductor Science and Technology</i> , 2002, 17, 261-265.	2.0	49
13	Growth and characterization of molybdenum doped ZnO thin films by spray pyrolysis. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 418-425.	4.0	49
14	Analysis on different detection mechanisms involved in ZnO-based photodetector and photodiodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7100-7113.	2.2	47
15	Flow boiling heat transfer enhancement on copper surface using Fe doped Al ₂ O ₃ -TiO ₂ composite coatings. <i>Applied Surface Science</i> , 2015, 334, 102-109.	6.1	42
16	Deposition of Na-N dual acceptor doped p-type ZnO thin films and fabrication of p-ZnO:(Na, Tj) ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Technology, 2013, 178, 1032-1039.	3.5	40
17	Formation and properties of AgInSe ₂ thin films by co-evaporation. <i>Vacuum</i> , 2004, 72, 369-378.	3.5	39
18	Realization of stable p-type ZnO thin films using Li-N dual acceptors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8676-8682.	5.5	36

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19	Effect of oxygen partial pressure on the tuning of copper oxide thin films by reactive sputtering for solar light driven photocatalysis. <i>Solar Energy</i> , 2019, 187, 368-378.	6.1	36
20	Enhanced visible emission from vertically aligned ZnO nanostructures by aqueous chemical growth process. <i>Journal of Luminescence</i> , 2014, 155, 149-155.	3.1	34
21	Effect of iron doping and annealing on structural and optical properties of cerium oxide nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1020-1025.	4.0	33
22	Welding fume reduction by nano-alumina coating on electrodes towards green welding process. <i>Journal of Cleaner Production</i> , 2015, 108, 131-144.	9.3	31
23	Effect of aluminium doping and annealing on structural and optical properties of cerium oxide nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 1443-1447.	4.0	29
24	Role of p-NiO electron blocking layers in fabrication of (P-N):ZnO/Al:ZnO UV photodiodes. <i>Current Applied Physics</i> , 2016, 16, 1052-1061.	2.4	27
25	Room temperature deposition of highly crystalline Cu-Zn-S thin films for solar cell applications using SILAR method. <i>Journal of Alloys and Compounds</i> , 2017, 712, 649-656.	5.5	27
26	Indium sulfide based metal-semiconductor-metal ultraviolet-visible photodetector. <i>Sensors and Actuators A: Physical</i> , 2019, 299, 111643.	4.1	26
27	Electrical properties of silver selenide thin films prepared by reactive evaporation. <i>Bulletin of Materials Science</i> , 2002, 25, 407-411.	1.7	25
28	Highly transparent conducting CdO thin films by radiofrequency magnetron sputtering for optoelectronic applications. <i>Journal of Nanophotonics</i> , 2016, 10, 033007.	1.0	25
29	Effect of annealing on the structural, optical and electrical properties of ZnO thin films by spray pyrolysis. <i>Indian Journal of Physics</i> , 2011, 85, 1381-1391.	1.8	24
30	Deposition of the low resistive Ag-N dual acceptor doped p-type ZnO thin films. <i>Ceramics International</i> , 2013, 39, 1799-1806.	4.8	24
31	Welding fumes reduction by coating of nano-TiO ₂ on electrodes. <i>Journal of Materials Processing Technology</i> , 2015, 219, 237-247.	6.3	22
32	Epitaxial growth of vertically aligned highly conducting ZnO nanowires by modified aqueous chemical growth process. <i>Ceramics International</i> , 2014, 40, 11283-11290.	4.8	21
33	Effect of Post-Annealing on the Properties of Eu Doped ZnO Nano Thin Films. , 2015, 10, 723-729.		21
34	Fabrication and characterization of resistive random access memory (ReRAM) devices using molybdenum trioxide (MoO ₃) as switching layer. <i>Superlattices and Microstructures</i> , 2020, 147, 106682.	3.1	21
35	Effect of substrate temperature and oxygen partial pressure on RF sputtered NiO thin films. <i>Materials Research Express</i> , 2018, 5, 046401.	1.6	20
36	Effect of surfactant addition on hydrophilicity of ZnO-Al ₂ O ₃ composite and enhancement of flow boiling heat transfer. <i>Experimental Thermal and Fluid Science</i> , 2016, 70, 325-334.	2.7	19

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37	Post-deposition thermal treatment of sprayed ZnO:Al thin films for enhancing the conductivity. <i>Physica B: Condensed Matter</i> , 2018, 533, 83-89.	2.7	19
38	Investigation on P-N dual acceptor doped p-type ZnO thin films and subsequent growth of pencil-like nanowires. <i>Semiconductor Science and Technology</i> , 2015, 30, 035009.	2.0	18
39	Synergetic effects of aluminium and indium dopants in the physical properties of ZnO thin films via spray pyrolysis. <i>Superlattices and Microstructures</i> , 2020, 142, 106511.	3.1	17
40	Effect of Zn/Sn molar ratio on the microstructural and optical properties of Cu ₂ Zn _{1-x} Sn _x S ₄ thin films prepared by spray pyrolysis technique. <i>Physica B: Condensed Matter</i> , 2018, 533, 22-27.	2.7	16
41	Properties of Au incorporated In ₂ O ₃ films. <i>Materials Science in Semiconductor Processing</i> , 2019, 93, 134-147.	4.0	14
42	Ferroelectric polarization induced memristive behavior in bismuth ferrite (BiFeO ₃) based memory devices. <i>Superlattices and Microstructures</i> , 2020, 148, 106726.	3.1	14
43	On the conversion of amorphous In ₂ S ₃ thin films to polycrystalline In ₂ S ₃ and to In ₂ O ₃ through thermal oxidation process. <i>Materials Science in Semiconductor Processing</i> , 2020, 111, 104983.	4.0	14
44	Fabrication of visible light photodetector using co-evaporated Indium Sulfide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17986-17998.	2.2	13
45	Influence of deposition time on the visible-light-driven photocatalytic activity of Cu ₂ O thin films by reactive sputtering at room temperature. <i>Materials Letters</i> , 2021, 284, 128980.	2.6	12
46	Effect of hydrophilic coating on mesh wicks used in heat pipes. <i>Surface Engineering</i> , 2020, 36, 680-686.	2.2	11
47	Realization of In:ZnO/PEDOT:PSS based multifunctional device for ultraviolet (UV) light detection and resistive switching memory applications. <i>Journal of Applied Physics</i> , 2020, 128, 044503.	2.5	11
48	High-speed photoresponse properties of ultraviolet (UV) photodiodes using vertically aligned Al:ZnO nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600658.	1.8	10
49	Deposition and characterization of earth abundant CuZnS ternary thin films by vacuum spray pyrolysis and fabrication of p-CZS/n-AZO heterojunction solar cells. <i>International Journal of Energy Research</i> , 2020, 44, 7778-7788.	4.5	10
50	Transport properties of silver selenide thin films from 100 to 300 K. <i>Materials Letters</i> , 2002, 56, 491-495.	2.6	9
51	Deposition rate dependant formation and properties of Sn ₂ S ₃ and SnS thin films by co-evaporation. <i>Materials Research Express</i> , 2017, 4, 046404.	1.6	9
52	Room temperature deposition of high figure of merit p-type transparent conducting Cu ²⁺ Zn ²⁺ S thin films and their application in organic solar cells as an efficient hole transport layer. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154507.	5.5	9
53	Study on ferroelectric polarization induced resistive switching characteristics of neodymium-doped bismuth ferrite thin films for random access memory applications. <i>Current Applied Physics</i> , 2022, 39, 221-229.	2.4	9
54	Effect of He ⁺ irradiation on the optical properties of vacuum evaporated silver indium selenide thin films. <i>Journal of Alloys and Compounds</i> , 2010, 495, 284-287.	5.5	8

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55	Control of exposure to hexavalent chromium concentration in shielded metal arc welding fumes by nano-coating of electrodes. International Journal of Occupational and Environmental Health, 2017, 23, 128-142.	1.2	8
56	Enhanced luminescence property of 1 D nanorods realised by aqueous chemical growth on indium doped zinc oxide thin films. Thin Solid Films, 2019, 686, 137279.	1.8	8
57	Surfactant-mediated solvothermal synthesis of CuSbS ₂ nanoparticles as p-type absorber material. Indian Journal of Physics, 2019, 93, 185-195.	1.8	8
58	Effect of substrate temperature on properties of co-evaporated copper antimony sulfide thin films. Thin Solid Films, 2020, 697, 137838.	1.8	8
59	Effect of H ⁺ irradiation on the optical properties of vacuum evaporated AgInSe ₂ thin films. Applied Surface Science, 2009, 255, 8324-8327.	6.1	7
60	Fabrication and characterization of n-ZnO:Eu/p-ZnO:(Ag, N) homojunction by spray pyrolysis. Materials Research Bulletin, 2014, 49, 44-49.	5.2	7
61	Growth and characterization of near white light emitting Al-Ga:ZnO nanowires. Materials Research Express, 2015, 2, 075004.	1.6	7
62	Effect of Nb doping on the structural, morphological, optical and electrical properties of RF magnetron sputtered In ₂ O ₃ nanostructured films. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 14, 1600095.	0.8	7
63	Band gap variation in co-evaporated AgInSe ₂ thin films with 1.26 MeV He ⁺ ion irradiation. Indian Journal of Physics, 2011, 85, 401-409.	1.8	6
64	Biocidal properties of sputtered CdO:ZnO multi-component thin films for potential use in pathogenic bacteria control. Materials Research Express, 2019, 6, 104009.	1.6	6
65	Effect of annealing on the optical properties and photoconductivity of SnS thin film. AIP Conference Proceedings, 2017, , .	0.4	5
66	Solution Processed p-Type Cu ₂ ZnSnS ₄ Thin Films for Absorber Layer. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1556-1562.	3.7	5
67	Photo-electrical properties of silver indium selenide thin films. Journal of Materials Science Letters, 2003, 22, 287-291.	0.5	4
68	Room-temperature wide-range luminescence and structural, optical, and electrical properties of SILAR deposited Cu-Zn-S nano-structured thin films. , 2016, , .		4
69	Temperature-Dependent Properties of Co-evaporated CuS Thin Films. Brazilian Journal of Physics, 0, , 1.	1.4	4
70	Role of Oxygen Interstitial Defects in Fabrication of UV Photodiodes Using Vertically Aligned (Al,Ga):ZnO Nanowires. Nanoscience and Nanotechnology Letters, 2017, 9, 489-495.	0.4	4
71	Aging and annealing effects on properties of Ag-N dual-acceptor doped ZnO thin films. , 2013, , .		3
72	Dual acceptor doping and aging effect of p-ZnO:(Na, N) nanorod thin films by spray pyrolysis. , 2014, , .		3

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73	Application of Taguchi method in the optimization of process parameters for a sol-gel-derived nano-alumina film. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 574-585.	1.1	3
74	Optical properties of samarium doped ZnO thin films. , 2014, , .		2
75	Heat Treatment Impact on the Properties of Na and N Dual Doped ZnO Thin Flms by Spray Pyrolysis. , 2015, 10, 714-722.		2
76	Detection and Characterisation of Low Dense Charges Inside Metallic Devices Used in Space Applications by Neutron Radiography. Journal of Nondestructive Evaluation, 2020, 39, 1.	2.4	2
77	Modeling of Fume Formation from Shielded Metal Arc Welding Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1268-1278.	2.1	1
78	An investigation on the In doping of ZnO thin films by spray pyrolysis. AIP Conference Proceedings, 2018, , .	0.4	1
79	X-ray computed tomography and thermal neutron radiography for detection of low dense compounds inside pyro elements used in space applications. European Physical Journal Plus, 2021, 136, 1.	2.6	1
80	Optoelectronic properties of transparent conducting CdO:ZnO composite thin films by RF-magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2022, 33, 15638-15651.	2.2	1
81	Realization of highly transparent conducting CdO thin films by R.F. Magnetron sputtering for optoelectronic applications. , 2015, , .		0
82	Fabrication and characterization of p-ZnO:(P,N)/n-ZnO:Al homojunction ultra-violet (UV) light emitting diodes (Presentation Recording). , 2015, , .		0
83	A Study on the Emergence of P-Type Behaviour in Sr-Cu-O Mixed Phase Systems. Journal of Physics: Conference Series, 2019, 1172, 012008.	0.4	0
84	Enhanced physical properties of ZEO thin films for device applications. Materials Today: Proceedings, 2021, 39, 1620-1624.	1.8	0
85	ZnO Thin Films for Optoelectronic Applications. , 2009, , .		0
86	Realization of stable p-type ZnO thin films using a Li-N dual acceptor doping for optoelectronic applications. , 2010, , .		0