

Madambi K Jayaraj

List of Publications by Year in descending order

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72
papers

1,362
citations

394421

19
h-index

361022

35
g-index

74
all docs

74
docs citations

74
times ranked

1689
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent p-type conducting CuScO _{2+x} films. Applied Physics Letters, 2000, 77, 1325-1326.	3.3	231
2	Transparent conducting zinc oxide thin film prepared by off-axis rf magnetron sputtering. Bulletin of Materials Science, 2002, 25, 227-230.	1.7	96
3	Optical and electrical properties of amorphous zinc tin oxide thin films examined for thin film transistor application. Journal of Vacuum Science & Technology B, 2008, 26, 495-501.	1.3	96
4	Electrical characterization of transparent p-n heterojunction diodes. Journal of Applied Physics, 2001, 90, 5763-5767.	2.5	84
5	Red luminescence from hydrothermally synthesized Eu-doped ZnO nanoparticles under visible excitation. Bulletin of Materials Science, 2010, 33, 227-231.	1.7	64
6	Optical and Carrier Transport Properties of Cosputtered Zn-In-Sn-O Films and Their Applications to TFTs. Journal of the Electrochemical Society, 2008, 155, H390.	2.9	57
7	Host Sensitized White Luminescence from ZnGa ₂ O ₄ :Dy ³⁺ Phosphor. Journal of the Electrochemical Society, 2007, 154, J310.	2.9	56
8	Enhanced room temperature gas sensing properties of low temperature solution processed ZnO/CuO heterojunction. BMC Chemistry, 2019, 13, 4.	3.8	43
9	Novel Boron-Doped p-Type Cu ₂ O Thin Films as a Hole-Selective Contact in c-Si Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12972-12981.	8.0	41
10	Synthesis of chemically pure, luminescent Eu ³⁺ doped HAp nanoparticles: a promising fluorescent probe for in vivo imaging applications. Physical Chemistry Chemical Physics, 2013, 15, 8106.	2.8	40
11	Optical and magnetic properties of copper doped ZnO nanorods prepared by hydrothermal method. Journal of Materials Science: Materials in Electronics, 2013, 24, 106-112.	2.2	33
12	AC Thin Film Electroluminescent Devices with Rare Earth Doped ZnS. Journal of the Electrochemical Society, 1991, 138, 1512-1516.	2.9	32
13	Luminescence from Surfactant-Free ZnO Quantum Dots Prepared by Laser Ablation in Liquid. Electrochemical and Solid-State Letters, 2008, 11, K14.	2.2	29
14	Growth, structural, thermal, optical, and electrical properties of potassium succinate-succinic acid crystal. Journal of Materials Science, 2014, 49, 3598-3607.	3.7	28
15	Effect of oxygen intercalation on properties of sputtered CuYO ₂ for potential use as p-type transparent conducting films. Bulletin of Materials Science, 2008, 31, 49-53.	1.7	26
16	Transparent p-n Heterojunction Thin Film Diodes. Materials Research Society Symposia Proceedings, 2001, 666, 411.	0.1	24
17	Sustainable carbon dots as turn-off fluorescence sensor for highly sensitive Pb ²⁺ detection. Emergent Materials, 2020, 3, 51-56.	5.7	23
18	Facile Preparation of Lightweight and Flexible PVA/PEDOT:PSS/MWCNT Ternary Composite for High-Performance EMI Shielding in the X-Band Through Absorption Mechanism. Journal of Electronic Materials, 2020, 49, 1689-1701.	2.2	21

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19	Size-Dependent Optical Nonlinearity of Au Nanocrystals. Journal of the Electrochemical Society, 2009, 156, K167.	2.9	19
20	p-AgCoO ₂ /n-ZnO heterojunction diode grown by rf magnetron sputtering. Bulletin of Materials Science, 2008, 31, 753-758.	1.7	17
21	Vertically aligned ZnO nanorod array/CuO heterojunction for LIV detector application. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2493-2498.	1.8	16
22	Investigating the evolution of local structure around Er and Yb in ZnO:Er and ZnO:Er, Yb on annealing using X-ray absorption spectroscopy. Journal of Applied Physics, 2018, 123, .	2.5	14
23	Solution-processed CuO/TiO ₂ heterojunction for enhanced room temperature ethanol sensing applications. Physica Scripta, 2018, 93, 055001.	2.5	14
24	Low temperature fabrication of Cu _x O thin-film transistors and investigation on the origin of low field effect mobility. Journal of Applied Physics, 2018, 123, .	2.5	14
25	Co ²⁺ doped ZnO nanoflowers grown by hydrothermal method. Journal of the Ceramic Society of Japan, 2010, 118, 333-336.	1.1	13
26	Highly luminescent undoped and Mn-doped ZnS nanoparticles by liquid phase pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2014, 116, 1085-1089.	2.3	13
27	Enhanced optical, magnetic and hydrogen evolution reaction properties of Mo _{1-x} Ni _x S ₂ nanoflakes. RSC Advances, 2019, 9, 13465-13475.	3.6	13
28	Formation of hydroxyapatite coating on titanium at 200°C through pulsed laser deposition followed by hydrothermal treatment. Bulletin of Materials Science, 2011, 34, 389-399.	1.7	12
29	Characterization of ZnO plasma in a radio frequency sputtering system. Journal of Applied Physics, 2008, 103, 123305.	2.5	11
30	Eggshell Derived Europium Doped Hydroxyapatite Nanoparticles for Cell Imaging Application. Journal of Fluorescence, 2021, 31, 1927-1936.	2.5	11
31	Magnetic and Raman scattering studies of Co-doped ZnO thin films grown by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2014, 115, 843-849.	2.3	10
32	Fabrication of CNT-PEDOT:PSS/Si heterojunction carrier selective solar cell. AIP Conference Proceedings, 2019, , .	0.4	10
33	Spike-dependent plasticity modulation in TiO ₂ -based synaptic device. Journal of Materials Science: Materials in Electronics, 2021, 32, 13051-13061.	2.2	10
34	Characteristics of A.C Electroluminescence in ZnGa ₂ O ₄ :Mn ²⁺ Thin film Devices. Journal of the Electrochemical Society, 2011, 158, J269.	2.9	9
35	Complementary Inverter Circuits Based on p-Cu ₂ O and n-ZTO Thin Film Transistors. Journal of Electronic Materials, 2020, 49, 537-543.	2.2	9
36	Electroluminescent characteristics of ZnGa ₂ O ₄ :Dy ³⁺ thin film devices fabricated on glass substrates. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2641-2645.	1.8	8

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37	Hydrothermal synthesis of MoS ₂ for supercapacitive application. AIP Conference Proceedings, 2020, , .	0.4	8
38	Effect of oxygen partial pressure on optical and electrical properties of co-sputtered amorphous zinc indium tin oxide thin films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1625-1630.	1.8	7
39	Liquid Phase Pulsed Laser Ablation of Metal Nanoparticles for Nonlinear Optical Applications. Science of Advanced Materials, 2012, 4, 439-448.	0.7	7
40	Effect of Substrate Temperature on the Structural and Luminescent Characteristics of RF-Magnetron-Sputtered ZnGa ₂ O ₄ :Dy ³⁺ Thin Films. Journal of the Electrochemical Society, 2007, 154, J379.	2.9	6
41	Effect of ZnO Buffer Layer on the Structural and Optical Properties of Zn ₂ GeO ₄ :Mn ²⁺ Thin Films. Journal of the Electrochemical Society, 2008, 155, J270.	2.9	6
42	Optimization of piezoelectric MEMS process on Sr and La co-doped PZT thin films. Journal of Advanced Dielectrics, 2020, 10, 2050010.	2.4	6
43	Chemical vapour deposited graphene: substrate pre-treatment, growth and demonstration as a simple graphene-based SERS substrate. Bulletin of Materials Science, 2020, 43, 1.	1.7	6
44	Effects of temperature and doping on aluminium doped ZnO thin film grown by spray pyrolysis. AIP Conference Proceedings, 2020, , .	0.4	6
45	Investigation on the improved electrical and optical properties of trivalent boron-doped Cu ₂ O thin film and fabrication of Cu ₂ O:B/c-Si heterojunction diode. Journal of Materials Science: Materials in Electronics, 2020, 31, 10724-10730.	2.2	6
46	Spatial and temporal studies of laser ablated ZnO plasma. Journal of Applied Physics, 2008, 104, 053307.	2.5	5
47	Linear and nonlinear optical properties of rare earth doped of Ba _{0.7} Sr _{0.3} TiO ₃ thin films. Applied Physics B: Lasers and Optics, 2009, 96, 433-437.	2.2	5
48	Development of Au doped TiO ₂ nanofibers for photocatalytic applications. AIP Conference Proceedings, 2019, , .	0.4	5
49	Defect-assisted tuning of electroluminescence from p-GaN/n-ZnO nanorod heterojunction. Bulletin of Materials Science, 2015, 38, 901-907.	1.7	4
50	Study of nonlinear absorption properties of reduced graphene oxide by Z-scan technique. AIP Conference Proceedings, 2017, , .	0.4	4
51	Structural and electrical properties of pulsed laser deposited BaPbO ₃ conductive thin films and its effect on the ferroelectric properties of PbZr _{0.52} Ti _{0.48} O ₃ /BaPbO ₃ heterostructures. Ferroelectrics, 2017, 510, 71-79.	0.6	3
52	Zno-Based Dilute Magnetic Semiconductors. Materials Horizons, 2020, , 233-269.	0.6	3
53	Upconversion Nanophosphors: An Overview. Materials Horizons, 2020, , 47-102.	0.6	3
54	Effect of substrate and substrate temperature on the deposition of MoS ₂ by radio frequency magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	3

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55	Effect of Buffer Layer on the Properties of Laser Ablated PZT Thin Films. Integrated Ferroelectrics, 2010, 117, 104-109.	0.7	2
56	A novel Sr $\text{Sr}_{3}\text{Pb}_{6}\text{Ce}_{2}\text{Ti}_{12}\text{O}_{36}$ ferroelectric thin film grown by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2014, 116, 199-206.	2.3	2
57	C-axis oriented growth of ZnO nanorods over Mg:GaN for improved heterojunction device performance. AIP Advances, 2019, 9, 105318.	1.3	2
58	Growth and characterization of Zn _{1-x} Mg _x S thin films for electroluminescent applications. Journal of Materials Science: Materials in Electronics, 2001, 12, 733-737.	2.2	1
59	Effect of NH ₄ Cl flux on the structural and luminescence properties of SrS:Cu,F phosphor. Journal of Optics (India), 2013, 42, 64-66.	1.7	1
60	Zinc stannate flakes for optoelectronic and antibacterial applications. AIP Conference Proceedings, 2019, , .	0.4	1
61	Synthesis of carbon nanotubes by chemical vapor deposition technique. AIP Conference Proceedings, 2019, , .	0.4	1
62	Perovskite quantum dot based resistive memory with very low operating power. AIP Conference Proceedings, 2019, , .	0.4	1
63	Optical Properties of Metal, Semiconductor and Ceramic Nanostructures Grown by Liquid Phase-Pulsed Laser Ablation. Materials Horizons, 2020, , 103-128.	0.6	1
64	Domain Matched Epitaxial Growth of Dielectric Thin Films. Materials Horizons, 2020, , 271-302.	0.6	1
65	Development of In Situ Laser Blow Off Cleaning Setup for ADITYA Tokamak Window. Fusion Science and Technology, 2013, 64, 54-62.	1.1	0
66	Annealing effects on the structural and electrical properties of pulsed laser deposited BaPbO ₃ thin films. , 2014, , .		0
67	Preparation of ZnO nanoparticles showing upconversion luminescence through simple chemical method. AIP Conference Proceedings, 2016, , .	0.4	0
68	Facile fabrication of surface enhanced Raman scattering active optical fiber. AIP Conference Proceedings, 2019, , .	0.4	0
69	The field effect behavior of graphene films in air and vacuum. AIP Conference Proceedings, 2019, , .	0.4	0
70	Fabrication of asymmetric heterojunction carrier selective c-Si solar cell. AIP Conference Proceedings, 2020, , .	0.4	0
71	Oxide Luminescent Materials. Materials Horizons, 2020, , 1-46.	0.6	0
72	One-Dimensional ZnO Nanostructure: Growth & Device Applications. Materials Horizons, 2020, , 177-210.	0.6	0