

Lethy Krishnan Jagadamma

List of Publications by Year in descending order

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44
papers

2,209
citations

236925

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243625

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all docs

45
docs citations

45
times ranked

4145
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. Nano Letters, 2015, 15, 7691-7696.	9.1	198
2	Morphology changes upon scaling a high-efficiency, solution-processed solar cell. Energy and Environmental Science, 2016, 9, 2835-2846.	30.8	170
3	Polymer Solar Cells with Efficiency >10% Enabled via a Facile Solution-Processed Al-Doped ZnO Electron Transporting Layer. Advanced Energy Materials, 2015, 5, 1500204.	19.5	142
4	Double-Sided Junctions Enable High-Performance Colloidal-Quantum-Dot Photovoltaics. Advanced Materials, 2016, 28, 4142-4148.	21.0	121
5	Effect of substrate temperature on structural, optical and electrical properties of pulsed laser ablated nanostructured indium oxide films. Applied Surface Science, 2009, 255, 8334-8342.	6.1	117
6	Efficient inverted bulk-heterojunction solar cells from low-temperature processing of amorphous ZnO buffer layers. Journal of Materials Chemistry A, 2014, 2, 13321.	10.3	113
7	Structural, optical and morphological studies on laser ablated nanostructured WO ₃ thin films. Applied Surface Science, 2008, 254, 2369-2376.	6.1	109
8	Growth and characterization of molybdenum oxide nanorods by RF magnetron sputtering and subsequent annealing. Journal Physics D: Applied Physics, 2009, 42, 175305.	2.8	108
9	Effect of cadmium oxide incorporation on the microstructural and optical properties of pulsed laser deposited nanostructured zinc oxide thin films. Materials Chemistry and Physics, 2010, 121, 406-413.	4.0	108
10	Sub-15-nm patterning of asymmetric metal electrodes and devices by adhesion lithography. Nature Communications, 2014, 5, 3933.	12.8	77
11	Bandgap renormalization in titania modified nanostructured tungsten oxide thin films prepared by pulsed laser deposition technique for solar cell applications. Journal of Applied Physics, 2008, 104, 033515.	2.5	72
12	Nanostructured tungsten oxide thin films by the reactive pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 2008, 91, 637-649.	2.3	67
13	Charge carrier localised in zero-dimensional (CH ₃ NH ₃) ₃ Bi ₂ I ₉ clusters. Nature Communications, 2017, 8, 170.	12.8	62
14	Correlating photovoltaic properties of a PTB7-Th:PC ₇₁ BM blend to photophysics and microstructure as a function of thermal annealing. Journal of Materials Chemistry A, 2017, 5, 14646-14657.	10.3	61
15	Effect of ITO buffer layers on the structural, optical and electrical properties of ZnO multilayer thin films prepared by pulsed laser deposition technique. Solar Energy Materials and Solar Cells, 2010, 94, 68-74.	6.2	60
16	Highly efficient polymer solar cells with printed photoactive layer: rational process transfer from spin-coating. Journal of Materials Chemistry A, 2016, 4, 16036-16046.	10.3	57
17	High-Resolution Cathodoluminescence Hyperspectral Imaging of Nitride Nanostructures. Microscopy and Microanalysis, 2012, 18, 1212-1219.	0.4	51
18	Photoluminescence in laser ablated nanostructured indium oxide thin films. Journal of Alloys and Compounds, 2010, 489, 215-223.	5.5	50

#	ARTICLE	IF	CITATIONS
19	Radio Frequency Coplanar ZnO Schottky Nanodiodes Processed from Solution on Plastic Substrates. <i>Small</i> , 2016, 12, 1993-2000.	10.0	48
20	Hybrid tandem solar cells with depleted-heterojunction quantum dot and polymer bulk heterojunction subcells. <i>Nano Energy</i> , 2015, 17, 196-205.	16.0	43
21	Highly efficient organic solar cells based on a robust room-temperature solution-processed copper iodide hole transporter. <i>Nano Energy</i> , 2015, 16, 458-469.	16.0	41
22	Morphological, Chemical, and Electronic Changes of the Conjugated Polymer PTB7 with Thermal Annealing. <i>IScience</i> , 2018, 2, 182-192.	4.1	37
23	Influence of substrate temperature on the properties of laser ablated indium tin oxide films. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1438-1443.	6.2	36
24	Light Emission from InGaN Quantum Wells Grown on the Facets of Closely Spaced GaN Nano-Pyramids Formed by Nano-Imprinting. <i>Applied Physics Express</i> , 2009, 2, 121002.	2.4	27
25	Solution-processable MoOx nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. <i>Nano Energy</i> , 2016, 28, 277-287.	16.0	27
26	Novel 4,8-benzobisthiazole copolymers and their field-effect transistor and photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11927-11936.	5.5	23
27	Effect of Zinc Oxide Doping on the Structural and Optical Characterization of Nanostructured Molybdenum Oxide Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5254-5261.	0.9	20
28	Effect of thermal annealing on the structural and optical properties of nanostructured zinc oxide thin films prepared by pulsed laser ablation. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 74-78.	6.2	19
29	Engineered exciton diffusion length enhances device efficiency in small molecule photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9445-9450.	10.3	17
30	BODIPY derivatives with near infra-red absorption as small molecule donors for bulk heterojunction solar cells. <i>RSC Advances</i> , 2019, 9, 15410-15423.	3.6	16
31	Cross-sectional and plan-view cathodoluminescence of GaN partially coalesced above a nanocolumn array. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	15
32	New thiophene-based conjugated macrocycles for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16257-16271.	5.5	14
33	Highly efficient fullerene and non-fullerene based ternary organic solar cells incorporating a new tetrathiocin-cored semiconductor. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2087-2099.	4.9	12
34	Transparent and low resistive nanostructured laser ablated tungsten oxide thin films by nitrogen doping: II. Substrate temperature. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185407.	2.8	10
35	Triptycene as a Supramolecular Additive in PTB7:PCBM Blends and Its Influence on Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24665-24678.	8.0	9
36	Interface limited hole extraction from methylammonium lead iodide films. <i>Materials Horizons</i> , 2020, 7, 943-948.	12.2	9

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37	Transparent and low resistive nanostructured laser ablated tungsten oxide thin films by nitrogen doping: I. Nitrogen pressure. Journal Physics D: Applied Physics, 2009, 42, 095412.	2.8	8
38	Influence of post-deposition thermal annealing on the properties of pulsed laser deposited tungsten layers. Physica Scripta, 2009, 80, 015703.	2.5	5
39	Micro-Structural, Electrical and Spectroscopic Investigations of Pulsed Laser Ablated Palladium Incorporated Nanostructured Tungsten Oxide Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 5335-5344.	0.9	5
40	Cathodoluminescence studies of GaN coalesced from nanopyramids selectively grown by MOVPE. Semiconductor Science and Technology, 2012, 27, 085010.	2.0	5
41	An investigation of the role acceptor side chains play in the processibility and efficiency of organic solar cells fabricated from small molecular donors featuring 3,4-ethylenedioxythiophene cores. RSC Advances, 2018, 8, 39231-39240.	3.6	5
42	Hydrogen sensing based on laser ablated nanostructured WO ₃ thin films. IOP Conference Series: Materials Science and Engineering, 2009, 2, 012003.	0.6	3
43	Probing the structure-property-composition relationship in organic-inorganic tri-halide perovskites. Physical Chemistry Chemical Physics, 2018, 20, 20489-20496.	2.8	2
44	Polymer solar cells with efficiency >10% enabled via a facile solution-processed Al-doped ZnO electron transporting layer (Presentation Recording). , 2015, , .		0