

Lethy Krishnan Jagadamma

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,209
citations

236925

25
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

4145
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | New thiophene-based conjugated macrocycles for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16257-16271. | 5.5 | 14 |
| 2 | Interface limited hole extraction from methylammonium lead iodide films. <i>Materials Horizons</i> , 2020, 7, 943-948. | 12.2 | 9 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Morphological, Chemical, and Electronic Changes of the Conjugated Polymer PTB7 with Thermal Annealing. <i>IScience</i> , 2018, 2, 182-192. | 4.1 | 37 |
| 7 | 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. <i>RSC Advances</i> , 2018, 8, 39231-39240. | 3.6 | 5 |
| 8 | 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 |
| 9 | Probing the structure-property-composition relationship in organic-inorganic tri-halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20489-20496. | 2.8 | 2 |
| 10 | Correlating photovoltaic properties of a PTB7:Th:PCBM blend to photophysics and microstructure as a function of thermal annealing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14646-14657. | 10.3 | 61 |
| 11 | Charge carrier localised in zero-dimensional (CH ₃ NH ₃) ₃ Bi ₂ I ₉ clusters. <i>Nature Communications</i> , 2017, 8, 170. | 12.8 | 62 |
| 12 | 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 |
| 13 | Radio Frequency Coplanar ZnO Schottky Nanodiodes Processed from Solution on Plastic Substrates. <i>Small</i> , 2016, 12, 1993-2000. | 10.0 | 48 |
| 14 | Highly efficient polymer solar cells with printed photoactive layer: rational process transfer from spin-coating. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16036-16046. | 10.3 | 57 |
| 15 | Morphology changes upon scaling a high-efficiency, solution-processed solar cell. <i>Energy and Environmental Science</i> , 2016, 9, 2835-2846. | 30.8 | 170 |
| 16 | Solution-processable MoO _x nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. <i>Nano Energy</i> , 2016, 28, 277-287. | 16.0 | 27 |
| 17 | Double-Sided Junctions Enable High-Performance Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4142-4148. | 21.0 | 121 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Polymer Solar Cells with Efficiency >10% Enabled via a Facile Solution-Processed Al-Doped ZnO Electron Transporting Layer. <i>Advanced Energy Materials</i> , 2015, 5, 1500204. | 19.5 | 142 |
| 20 | High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , 2015, 15, 7691-7696. | 9.1 | 198 |
| 21 | Polymer solar cells with efficiency > 10% enabled via a facile solution-processed Al-doped ZnO electron transporting layer (Presentation Recording). , 2015, , . | | 0 |
| 22 | 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 |
| 23 | Sub-15-nm patterning of asymmetric metal electrodes and devices by adhesion lithography. <i>Nature Communications</i> , 2014, 5, 3933. | 12.8 | 77 |
| 24 | Efficient inverted bulk-heterojunction solar cells from low-temperature processing of amorphous ZnO buffer layers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13321. | 10.3 | 113 |
| 25 | 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 |
| 26 | Cathodoluminescence studies of GaN coalesced from nanopillars selectively grown by MOVPE. <i>Semiconductor Science and Technology</i> , 2012, 27, 085010. | 2.0 | 5 |
| 27 | High-Resolution Cathodoluminescence Hyperspectral Imaging of Nitride Nanostructures. <i>Microscopy and Microanalysis</i> , 2012, 18, 1212-1219. | 0.4 | 51 |
| 28 | Effect of ITO buffer layers on the structural, optical and electrical properties of ZnO multilayer thin films prepared by pulsed laser deposition technique. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 68-74. | 6.2 | 60 |
| 29 | Effect of cadmium oxide incorporation on the microstructural and optical properties of pulsed laser deposited nanostructured zinc oxide thin films. <i>Materials Chemistry and Physics</i> , 2010, 121, 406-413. | 4.0 | 108 |
| 30 | Photoluminescence in laser ablated nanostructured indium oxide thin films. <i>Journal of Alloys and Compounds</i> , 2010, 489, 215-223. | 5.5 | 50 |
| 31 | Light Emission from InGaN Quantum Wells Grown on the Facets of Closely Spaced GaN Nano-Pillars Formed by Nano-Imprinting. <i>Applied Physics Express</i> , 2009, 2, 121002. | 2.4 | 27 |
| 32 | Transparent and low resistive nanostructured laser ablated tungsten oxide thin films by nitrogen doping: I. Nitrogen pressure. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 095412. | 2.8 | 8 |
| 33 | Hydrogen sensing based on laser ablated nanostructured WO ₃ thin films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 2, 012003. | 0.6 | 3 |
| 34 | 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 |
| 35 | 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 |
| 36 | Effect of substrate temperature on structural, optical and electrical properties of pulsed laser ablated nanostructured indium oxide films. <i>Applied Surface Science</i> , 2009, 255, 8334-8342. | 6.1 | 117 |

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|----|--|-----|-----------|
| 37 | Transparent and low resistive nanostructured laser ablated tungsten oxide thin films by nitrogen doping: II. Substrate temperature. Journal Physics D: Applied Physics, 2009, 42, 185407. | 2.8 | 10 |
| 38 | 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 |
| 39 | Influence of post-deposition thermal annealing on the properties of pulsed laser deposited tungsten layers. Physica Scripta, 2009, 80, 015703. | 2.5 | 5 |
| 40 | 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 |
| 41 | Structural, optical and morphological studies on laser ablated nanostructured WO ₃ thin films. Applied Surface Science, 2008, 254, 2369-2376. | 6.1 | 109 |
| 42 | 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 |
| 43 | 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 |
| 44 | Influence of substrate temperature on the properties of laser ablated indium tin oxide films. Solar Energy Materials and Solar Cells, 2007, 91, 1438-1443. | 6.2 | 36 |