Kishore K Devarepally

List of Publications by Year
in descending order

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33 papers	1,412 citations	394421 19 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	2166 citing authors

#	Article	IF	Citations
1	Functionalized metal oxide nanoparticles for efficient dye-sensitized solar cells (DSSCs): A review. Materials Science for Energy Technologies, 2020, 3, 472-481.	1.8	62
2	Synthesis of SnSe quantum dots by successive ionic layer adsorption and reaction (SILAR) method for efficient solar cells applications. Solar Energy, 2020, 199, 570-574.	6.1	39
3	Screen printed tin selenide films used as the counter electrodes in dye sensitized solar cells. Solar Energy, 2019, 190, 28-33.	6.1	24
4	Low-temperature titania-graphene quantum dots paste for flexible dye-sensitised solar cell applications. Electrochimica Acta, 2019, 305, 278-284.	5.2	30
5	Scalable screen-printing manufacturing process for graphene oxide platinum free alternative counter electrodes in efficient dye sensitized solar cells. FlatChem, 2019, 15, 100105.	5.6	19
6	Optimizing room temperature binder free TiO ₂ paste for high efficiency flexible polymer dye sensitized solar cells. Flexible and Printed Electronics, 2019, 4, 015007.	2.7	9
7	Sol gel combustion derived monticellite bioceramic powders for apatite formation ability evaluation. Materials Research Express, 2019, 6, 125431.	1.6	9
8	Novel anisotropic ordered polymeric materials based on metallopolymer precursors as dye sensitized solar cells. Chemical Engineering Journal, 2019, 358, 1166-1175.	12.7	42
9	Monte Carlo simulation for optimization of a simple and efficient bifacial DSSC with a scattering layer in the middle. Solar Energy, 2018, 161, 64-73.	6.1	10
10	Dye sensitized solar cells using the electric field assisted spray deposited kesterite (Cu2ZnSnS4) films as the counter electrodes for improved performance. Electrochimica Acta, 2018, 263, 26-33.	5.2	27
11	Effect of zinc precursor on Cu2ZnSnS4 nanoparticles synthesized by the solvothermal method and its application in dye-sensitized solar cells as the counter electrode. Materials Today Energy, 2018, 9, 377-382.	4.7	12
12	Synthesis and characterization of Er3+-Yb3+ doped ZnO upconversion nanoparticles for solar cell application. Journal of Alloys and Compounds, 2018, 766, 429-435.	5.5	72
13	Polymeric Templating Synthesis of Anatase TiO₂ Nanoparticles from Lowâ€Cost Inorganic Titanium Sources. ChemistrySelect, 2017, 2, 702-706.	1.5	7
14	Structural and electrical properties of electric field assisted spray deposited pea structured ZnO film. AIP Conference Proceedings, 2016, , .	0.4	0
15	Effect of sulphurisation on the activation energy of spray deposited kesterite (Cu2ZnSnS4) films. AIP Conference Proceedings, 2016, , .	0.4	1
16	Effects of electric field during deposition on spray deposited indiumâ€doped zinc oxide films. Progress in Photovoltaics: Research and Applications, 2016, 24, 74-82.	8.1	16
17	Eu 3+ doped down shifting TiO 2 layer for efficient dye-sensitized solar cells. Journal of Colloid and Interface Science, 2016, 484, 24-32.	9.4	44
18	Electric field assisted spray deposited MoO3 thin films as a hole transport layer for organic solar cells. Solar Energy, 2016, 137, 379-384.	6.1	32

#	Article	IF	Citations
19	Spray deposition of poly(3-hexylthiophene) and [6,6]-phenyl-C61-butyric acid methyl ester blend under electric field for improved interface and organic solar cell characteristics. Thin Solid Films, 2016, 598, 82-87.	1.8	6
20	Effect of electric field on spray deposited zinc sulphide films. AIP Conference Proceedings, 2015, , .	0.4	1
21	Isomer Dependence of Efficiency and Charge Recombination in Dyeâ€Sensitized Solar Cells Using Ru Complex Dyes Bearing Halogen Substituents. European Journal of Inorganic Chemistry, 2015, 2015, 4878-4884.	2.0	7
22	Effect of deposition temperature on the structural and electrical properties of spray deposited kesterite (Cu2ZnSnS4) films. Solar Energy, 2015, 122, 508-516.	6.1	33
23	A novel route to 4,4â€²-disubstituted bipyridyl ligands in ruthenium complexes for dye-sensitized solar cells. Polyhedron, 2015, 89, 45-48.	2.2	4
24	Investigation of electrodeposited cobalt sulphide counter electrodes and their application in next-generation dye sensitized solar cells featuring organic dyes and cobalt-based redox electrolytes. Journal of Power Sources, 2015, 275, 80-89.	7.8	64
25	Ethynyl thiophene-appended unsymmetrical zinc porphyrin sensitizers for dye-sensitized solar cells. RSC Advances, 2014, 4, 14165-14175.	3.6	20
26	Spray deposited copper zinc tin sulphide (Cu₂ZnSnS₄) film as a counter electrode in dye sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 23993-23999.	2.8	74
27	Facile Synthesis of Titania Nanowires via a Hot Filament Method and Conductometric Measurement of Their Response to Hydrogen Sulfide Gas. ACS Applied Materials & Interfaces, 2013, 5, 1197-1205.	8.0	26
28	Recent progress and the status of dye-sensitised solar cell (DSSC) technology with state-of-the-art conversion efficiencies. Solar Energy Materials and Solar Cells, 2013, 119, 291-295.	6.2	130
29	Deposition of Kesterite Cu2ZnSnS4 (CZTS) Thin Films by Spin Coating Technique for Solar Cell Application. Energy Procedia, 2013, 33, 198-202.	1.8	97
30	Effect of electric field on the spray deposited poly (3,4-ethylenedioxythiophene): poly(styrenesulfonate) layer and its use in organic solar cell. Journal of Applied Physics, 2013, 114, .	2.5	28
31	Eclipta prostrata leaf aqueous extract mediated synthesis of titanium dioxide nanoparticles. Materials Letters, 2012, 68, 115-117.	2.6	171
32	Synthesis of linear ZnO structures by a thermal decomposition method and their characterisation. Journal of Materials Science, 2012, 47, 1893-1901.	3.7	10
33	Hydrothermal synthesis of highly crystalline ZnO nanoparticles: A competitive sensor for LPG and EtOH. Sensors and Actuators B: Chemical, 2006, 119, 676-682.	7.8	286