Kishore K Devarepally

List of Publications by Year
in descending order

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	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
2	Eclipta prostrata leaf aqueous extract mediated synthesis of titanium dioxide nanoparticles. Materials Letters, 2012, 68, 115-117.	2.6	171
3	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
4	Deposition of Kesterite Cu2ZnSnS4 (CZTS) Thin Films by Spin Coating Technique for Solar Cell Application. Energy Procedia, 2013, 33, 198-202.	1.8	97
5	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
6	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
7	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
8	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
9	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
10	Novel anisotropic ordered polymeric materials based on metallopolymer precursors as dye sensitized solar cells. Chemical Engineering Journal, 2019, 358, 1166-1175.	12.7	42
11	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
12	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
13	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
14	Low-temperature titania-graphene quantum dots paste for flexible dye-sensitised solar cell applications. Electrochimica Acta, 2019, 305, 278-284.	5.2	30
15	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
16	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
17	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
18	Screen printed tin selenide films used as the counter electrodes in dye sensitized solar cells. Solar Energy, 2019, 190, 28-33.	6.1	24

#	Article	IF	Citations
19	Ethynyl thiophene-appended unsymmetrical zinc porphyrin sensitizers for dye-sensitized solar cells. RSC Advances, 2014, 4, 14165-14175.	3.6	20
20	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
21	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
22	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
23	Synthesis of linear ZnO structures by a thermal decomposition method and their characterisation. Journal of Materials Science, 2012, 47, 1893-1901.	3.7	10
24	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
25	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
26	Sol gel combustion derived monticellite bioceramic powders for apatite formation ability evaluation. Materials Research Express, 2019, 6, 125431.	1.6	9
27	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
28	Polymeric Templating Synthesis of Anatase TiO₂ Nanoparticles from Lowâ€Cost Inorganic Titanium Sources. ChemistrySelect, 2017, 2, 702-706.	1.5	7
29	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
30	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
31	Effect of electric field on spray deposited zinc sulphide films. AIP Conference Proceedings, 2015, , .	0.4	1
32	Effect of sulphurisation on the activation energy of spray deposited kesterite (Cu2ZnSnS4) films. AIP Conference Proceedings, 2016, , .	0.4	1
33	Structural and electrical properties of electric field assisted spray deposited pea structured ZnO film. AIP Conference Proceedings, 2016, , .	0.4	0