

# G R R A Kumara

## List of Publications by Year in descending order

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58  
papers

3,527  
citations

159585

30  
h-index

144013

57  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2960  
citing authors

#	ARTICLE	IF	CITATIONS
1	A dye-sensitized nano-porous solid-state photovoltaic cell. <i>Semiconductor Science and Technology</i> , 1995, 10, 1689-1693.	2.0	419
2	An efficient dye-sensitized photoelectrochemical solar cell made from oxides of tin and zinc. <i>Chemical Communications</i> , 1999, , 15-16.	4.1	288
3	Dye-sensitized solar cell with the hole collector p-CuSCN deposited from a solution in n-propyl sulphide. <i>Solar Energy Materials and Solar Cells</i> , 2001, 69, 195-199.	6.2	235
4	Dye-Sensitized Solid-State Solar Cells: Use of Crystal Growth Inhibitors for Deposition of the Hole Collector. <i>Chemistry of Materials</i> , 2002, 14, 954-955.	6.7	234
5	A solid-state photovoltaic cell sensitized with a ruthenium bipyridyl complex. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 1492-1496.	2.8	191
6	Fabrication of Dye-Sensitized Solar Cells Using Triethylamine Hydrothiocyanate as a CuI Crystal Growth Inhibitor. <i>Langmuir</i> , 2002, 18, 10493-10495.	3.5	174
7	Shiso leaf pigments for dye-sensitized solid-state solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1220-1226.	6.2	151
8	Suppression of recombinations in a dye-sensitized photoelectrochemical cell made from a film of tin IV oxide crystallites coated with a thin layer of aluminium oxide. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 868-873.	2.8	115
9	Stability of the SnO <sub>2</sub> /MgO dye-sensitized photoelectrochemical solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 544-547.	6.2	106
10	TiO <sub>2</sub> Surface Treatment Effects by Mg <sup>2+</sup> , Ba <sup>2+</sup> , and Al <sup>3+</sup> on Sb <sub>2</sub> S <sub>3</sub> Extremely Thin Absorber Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13465-13471.	3.1	103
11	Dye-sensitized solid state photovoltaic cell based on composite zinc oxide/tin (IV) oxide films. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 374-379.	2.8	100
12	Dye-sensitized solid-state solar cells made from magnesiumoxide-coated nanocrystalline titanium dioxide films: enhancement of the efficiency. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 183-185.	3.9	97
13	Nanoporous n-/selenium/p-CuCNS photovoltaic cell. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 2326-2330.	2.8	83
14	Graphite-type activated carbon from coconut shell: a natural source for eco-friendly non-volatile storage devices. <i>RSC Advances</i> , 2021, 11, 2854-2865.	3.6	78
15	Sensitization of nano-porous films of TiO <sub>2</sub> with santalin (red sandalwood pigment) and construction of dye-sensitized solid-state photovoltaic cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 117, 137-142.	3.9	77
16	Dye-sensitized composite semiconductor nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 190-196.	2.7	73
17	Porous TiO <sub>2</sub> thin films prepared by spray pyrolysis deposition (SPD) technique and their application to UV sensors. <i>Solid State Ionics</i> , 2004, 172, 527-531.	2.7	60
18	Large area dye-sensitized solar cells: material aspects of fabrication. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 643-651.	8.1	58

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19	Preparation of structurally modified, conductivity enhanced-p-CuSCN and its application in dye-sensitized solid-state solar cells. <i>Journal of Power Sources</i> , 2012, 203, 288-296.	7.8	51
20	Tuning chemistry of CuSCN to enhance the performance of TiO <sub>2</sub> /N719/CuSCN all-solid-state dye-sensitized solar cell. <i>Chemical Communications</i> , 2010, 46, 3360.	4.1	50
21	Quasi-solid electrolyte based on polyacrylonitrile for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 308-312.	3.9	49
22	Fabrication of dye-sensitized solar cells by spray pyrolysis deposition (SPD) technique. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 167-172.	3.9	48
23	Activated coconut shell charcoal based counter electrode for dye-sensitized solar cells. <i>Organic Electronics</i> , 2019, 71, 93-97.	2.6	46
24	The photostability of dye-sensitized solid state photovoltaic cells: factors determining the stability of the pigment in a nanoporous n-/cyanidin/p-CuI cell. <i>Semiconductor Science and Technology</i> , 1997, 12, 128-132.	2.0	44
25	Deposition of thin polycrystalline films of cuprous thiocyanate on conducting glass and photoelectrochemical dye-sensitization. <i>Thin Solid Films</i> , 1995, 261, 307-310.	1.8	43
26	The effect of particle size and conductivity of CuI layer on the performance of solid-state dye-sensitized photovoltaic cells. <i>Current Applied Physics</i> , 2005, 5, 149-151.	2.4	37
27	Efficient dye-sensitized photoelectrochemical cells made from nanocrystalline tin(IV) oxide/zinc oxide composite films. <i>Semiconductor Science and Technology</i> , 2003, 18, 312-318.	2.0	36
28	Solid-state Solar Cells Sensitized with Indoline Dye. <i>Chemistry Letters</i> , 2007, 36, 716-717.	1.3	35
29	Preparation of Fluoride-Doped Tin Oxide Films on Soda Lime Glass Substrates by Atomized Spray Pyrolysis Technique and Their Subsequent Use in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16479-16485.	3.1	34
30	Nano-porous solid-state photovoltaic cell sensitized with tannin. <i>Semiconductor Science and Technology</i> , 1998, 13, 134-138.	2.0	32
31	Highly efficient, optically semi-transparent, ZnO-based dye-sensitized solar cells with Indoline D-358 as the dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 229, 29-32.	3.9	28
32	Dye-sensitized solid-state photovoltaic cells: Suppression of electron-hole recombination by deposition of the dye on a thin insulating film in contact with a semiconductor. <i>Journal of Electronic Materials</i> , 2001, 30, 992-996.	2.2	26
33	The suppression of the recombination of photogenerated carriers in a dye-sensitized nano-porous solid-state photovoltaic cell. <i>Semiconductor Science and Technology</i> , 1996, 11, 1737-1739.	2.0	24
34	Use of lithium iodide and tetrapropylammonium iodide in gel electrolytes for improved performance of quasi-solid-state dye-sensitized solar cells: Recording an efficiency of 6.40%. <i>Electrochimica Acta</i> , 2016, 191, 1037-1043.	5.2	22
35	Dye-sensitized solar cell based on optically transparent TiO <sub>2</sub> nanocrystalline electrode prepared by atomized spray pyrolysis technique. <i>Electrochimica Acta</i> , 2011, 56, 9159-9161.	5.2	21
36	Novel Method to Improve Performance of Dye-sensitized Solar Cells Based on Quasi-solid Gel-Polymer Electrolytes. <i>Electrochimica Acta</i> , 2015, 152, 360-367.	5.2	21

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37	Investigations on the photo catalytic activity of calcium doped TiO <sub>2</sub> photo electrode for enhanced efficiency of anthocyanins based dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 377, 43-57.	3.9	21
38	Quasi-solid Polymer Electrolytes Based on Polyacrylonitrile and Plasticizers for Indoline Dye Sensitized Solar Cells of Efficiency 5.3%. <i>Chemistry Letters</i> , 2008, 37, 36-37.	1.3	19
39	The interconnected CaCO <sub>3</sub> coated SnO <sub>2</sub> nanocrystalline dye-sensitized solar cell with superior performance. <i>Electrochimica Acta</i> , 2011, 56, 4135-4138.	5.2	18
40	SnO <sub>2</sub> /ZnO composite dye-sensitized solar cells with graphene-based counter electrodes. <i>Organic Electronics</i> , 2018, 56, 159-162.	2.6	18
41	Shorter nanotubes and finer nanoparticles of TiO <sub>2</sub> for increased performance in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 63, 375-380.	5.2	17
42	Large area dye-sensitized solar cells with titanium based counter electrode. <i>Thin Solid Films</i> , 2012, 520, 4119-4121.	1.8	16
43	An enhancement of efficiency of a solid-state dye-sensitized solar cell due to cocktail effect of N719 and black dye. <i>Optik</i> , 2014, 125, 813-815.	2.9	16
44	Electrochemical impedance and X-ray photoelectron spectroscopic analysis of dye-sensitized liquid electrolyte based SnO <sub>2</sub> /ZnO solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 215, 1-10.	3.9	15
45	Vein graphite-based counter electrodes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 344, 78-83.	3.9	15
46	Efficient solid-state dye-sensitized n-ZnO/D-358 dye/p-CuI solar cell. <i>Electrochimica Acta</i> , 2013, 94, 34-37.	5.2	13
47	Chlorophyll-sensitized microporous cuprous iodide photocathode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 91, 59-61.	3.9	12
48	Tin oxide based dye-sensitized solid-state solar cells: surface passivation for suppression of recombination. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 890-895.	4.0	12
49	Ni/N co-doped P25 TiO <sub>2</sub> photoelectrodes for efficient Dye-Sensitized Solar Cells. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106062.	4.0	12
50	A Study of the Efficiency Enhancement of the Gel Electrolyte-based SnO <sub>2</sub> Dye-sensitized Solar Cells Through the Use of Thin Insulating Layers. <i>Electrochimica Acta</i> , 2016, 210, 138-146.	5.2	9
51	Photoelectrochemical solar cells made from SnO <sub>2</sub> /ZnO films sensitized with an indoline dye. <i>Journal of Materials Research</i> , 2010, 25, 1838-1841.	2.6	6
52	Dye-sensitized Solar Cells with an Extremely Thin Liquid Film as the Redox Electron Mediator. <i>Chemistry Letters</i> , 2005, 34, 572-573.	1.3	5
53	Donor- $\pi$ -Conjugated Spacer-Acceptor Dye-Sensitized Solid-State Solar Cell Using CuI as the Hole Collector. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-5.	2.5	5
54	Development of Dye-Sensitized Solid-State ZnO/D-149-CuSCN Solar Cell. <i>International Journal of Nanoscience</i> , 2014, 13, 1440007.	0.7	3

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55	Highly Efficient $\text{SnO}_2/\text{MgO}$ Composite Film-Based Dye-Sensitized Solar Cells Sensitized with N719 and D358 Dyes. International Journal of Nanoscience, 2014, 13, 1440006.	0.7	3
56	A Novel Method to Enhance the Performance of Quasi-solid-state Dye-sensitized Solar Cells Based on Polyacrylonitrile Gel Electrolyte and Nanoparticles of ZnO with Indoline D-358 as the Dye. Chemistry Letters, 2014, 43, 681-683.	1.3	2
57	Hybrid dye-sensitized solar cells with graphene—A convenient method to seal liquid state devices. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	1
58	Al-Doped ZnO Film as a Transparent Conductive Substrate in Indoline-Sensitized Nanoporous ZnO Solar Cell.. Materials Research Society Symposia Proceedings, 2012, 1494, 345-350.	0.1	0