

# S Prasanna

## List of Publications by Year in descending order

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22  
papers

831  
citations

623734

14  
h-index

713466

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docs citations

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times ranked

1201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on natural dye sensitized solar cells: Operation, materials and methods. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1306-1325.	16.4	236
2	Status and outlook of sensitizers/dyes used in dye sensitized solar cells (DSSC): a review. <i>International Journal of Energy Research</i> , 2016, 40, 1303-1320.	4.5	176
3	Enhancement in the photostability of natural dyes for dye-sensitized solar cell (DSSC) applications: a review. <i>International Journal of Energy Research</i> , 2017, 41, 1372-1396.	4.5	83
4	Dielectric properties of DC reactive magnetron sputtered Al <sub>2</sub> O <sub>3</sub> thin films. <i>Thin Solid Films</i> , 2012, 520, 2689-2694.	1.8	60
5	Investigations of RF magnetron sputtered CZTS absorber layer thin films prepared using sulfur induced binary targets without sulfurization. <i>Optical Materials</i> , 2018, 75, 56-60.	3.6	32
6	Enhanced performance of sodium doped TiO <sub>2</sub> nanorods based dye sensitized solar cells sensitized with extract from petals of <i>Hibiscus sabdariffa</i> (Roselle). <i>Materials Letters</i> , 2018, 221, 192-195.	2.6	31
7	Algal buffer layers for enhancing the efficiency of anthocyanins extracted from rose petals for natural dye-sensitized solar cell (DSSC). <i>International Journal of Energy Research</i> , 2018, 42, 790-801.	4.5	24
8	Investigations on electron beam evaporated Cu(In <sub>0.85</sub> Ga <sub>0.15</sub> )Se <sub>2</sub> thin film solar cells. <i>Solar Energy</i> , 2009, 83, 1652-1655.	6.1	23
9	Effect of solvents in the extraction and stability of anthocyanin from the petals of <i>Caesalpinia pulcherrima</i> for natural dye sensitized solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9882-9892.	2.2	21
10	Studies on DSSC encompassing flower shaped assembly of Na-doped TiO <sub>2</sub> nanorods sensitized with extract from petals of <i>Kigelia Africana</i> . <i>Optik</i> , 2018, 155, 334-343.	2.9	21
11	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
12	Effect of thickness on the structural, optical and electrical properties of RF magnetron sputtered GZO thin films. <i>Materials Science in Semiconductor Processing</i> , 2015, 29, 176-182.	4.0	19
13	Effect of Na doping on structure, morphology and properties of hydrothermally grown one dimensional TiO <sub>2</sub> nanorod structures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3500-3508.	2.2	14
14	Investigations on the effect of co-doping in enhancing the performance of nanostructured TiO <sub>2</sub> based DSSC sensitized using extracts of <i>Hibiscus Sabdariffa</i> calyx. <i>Optik</i> , 2020, 212, 164672.	2.9	14
15	Composition, structure and electrical properties of DC reactive magnetron sputtered Al <sub>2</sub> O <sub>3</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 705-711.	4.0	12
16	A transmission electron microscopy and X-ray photoelectron spectroscopy study of annealing induced $\beta$ -phase nucleation, clustering, and interfacial dynamics in reactively sputtered amorphous alumina thin films. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	12
17	Effect of substrate temperature on structural, morphology and optical properties of RF magnetron sputtered CZT thin films. <i>Materials Technology</i> , 2015, 30, 200-204.	3.0	8
18	Effect of post deposition annealing on the structure, morphology, optical and electrical properties of CuInGaSe <sub>2</sub> thin films. <i>Optical Materials</i> , 2016, 62, 132-138.	3.6	8

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19	Investigations on post sulphurised Cu <sub>2</sub> ZnSnS <sub>4</sub> absorber layer thin films prepared using radio frequency magnetron sputtering. Thin Solid Films, 2020, 695, 137764.	1.8	7
20	Enhanced photostability of anthocyanin dye for increased efficiency in natural dye sensitized solar cells. Optik, 2021, 227, 166053.	2.9	6
21	Effect of post-deposition annealing on composition and electrical properties of dc reactive magnetron sputtered Al <sub>2</sub> O <sub>3</sub> thin films. Materials Technology, 2014, 29, 83-89.	3.0	3
22	Effect of Post-Deposition Annealing on the Al <sub>2</sub> O <sub>3</sub> /Si(100) Interface Properties. Science of Advanced Materials, 2014, 6, 1032-1036.	0.7	0