

# DrSasirekha Venkidusamy

## List of Publications by Year in descending order

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31  
papers

632  
citations

516215

16  
h-index

580395

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

868  
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile hydrothermal synthesis of SrTiO <sub>3</sub> for dye sensitized solar cell application. <i>Journal of Alloys and Compounds</i> , 2014, 586, 456-461.	2.8	111
2	Micro-Raman investigation of tin dioxide nanostructured material based on annealing effect. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1634-1639.	1.2	67
3	Solvatochromic study of 1,2-dihydroxyanthraquinone in neat and binary solvent mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 148-155.	2.0	46
4	Spectral investigations of amino acid picrates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 414-420.	2.0	33
5	Vibrational spectral analysis of dl-valine dl-valinium and dl-methionine dl-methioninium picrates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 955-963.	2.0	28
6	Influence of particle size on the phonon confinement of TiO <sub>2</sub> nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 661-668.	1.3	26
7	FT-IR and FT-Raman spectral studies of bis(L-proline) hydrogen nitrate and bis(L-proline) hydrogen perchlorate. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 950-961.	1.2	25
8	Preparation and characterization of ZnO/graphene nanocomposite for improved photovoltaic performance. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	25
9	Laser Raman and infrared spectral studies of dl-phenylalaninium nitrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 446-452.	2.0	24
10	Solvatochromism and preferential solvation of 1,4-dihydroxy-2,3-dimethyl-9,10-anthraquinone by UV-vis absorption and laser-induced fluorescence measurements. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 766-772.	2.0	24
11	Theoretical investigation on the structure and antioxidant activity of (+) catechin and (âˆ“) epicatechin âˆ“ a comparative study. <i>Molecular Physics</i> , 2020, 118, e1745917.	0.8	24
12	Study of preferential solvation of 2,6-diaminoanthraquinone in binary mixtures by absorption and fluorescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 626-633.	2.0	20
13	Effect of microwave power irradiation on TiO <sub>2</sub> nano-structures and binder free paste screen printed dye sensitized solar cells. <i>Ceramics International</i> , 2019, 45, 4667-4673.	2.3	20
14	Dual morphology titanium dioxide for dye sensitized solar cells. <i>Ceramics International</i> , 2019, 45, 7268-7277.	2.3	19
15	Solvatochromism, Preferential Solvation of 2,3-Bis(Chloromethyl)-1,4-Anthraquinone in Binary Mixtures and the Molecular Recognition Towards p-Tert-Butyl-Calix[4]arene. <i>Journal of Fluorescence</i> , 2007, 17, 528-539.	1.3	17
16	Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161693.	2.8	17
17	Impact of coupled plasmonic effect with multishaped silver nanoparticles on efficiency of dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162339.	2.8	16
18	A comparative investigation on the scavenging of 2,2-diphenyl-1-picrylhydrazyl radical by the natural antioxidants (+) catechin and (-) epicatechin. <i>Journal of Molecular Structure</i> , 2021, 1242, 130805.	1.8	14

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19	Preferential Solvation of 1,4-Dimethoxy-2,3-Dimethyl-9,10-Anthraquinone-A Spectrophotometric and Fluorometric Study. <i>Journal of Fluorescence</i> , 2009, 19, 419-426.	1.3	11
20	Microwave assisted synthesis of zinc stannate nanocubes for dye sensitized solar cell application. <i>Superlattices and Microstructures</i> , 2014, 75, 775-784.	1.4	11
21	Solvothermal fusion of Ag <sup>+</sup> -and N <sup>3-</sup> doped LiTaO <sub>3</sub> perovskite nanospheres for improved photocatalytic hydrogen production. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6207.	1.7	8
22	Effect of electronic-insulating oxides overlayer on the performance of zinc oxide based dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 305, 37-44.	2.0	7
23	Screen printed multifunctional TiO <sub>2</sub> photoanode with plasmonic Ag nanoparticles for performance enhancement of dye sensitized solar cell. <i>Materials Letters</i> , 2020, 276, 128194.	1.3	7
24	Structural exploration of interactions of (+) catechin and (âˆ“) epicatechin with bovine serum albumin: Insights from molecular dynamics and spectroscopic methods. <i>Journal of Molecular Liquids</i> , 2022, 348, 118026.	2.3	7
25	The use of urea as an N <sup>3-</sup> doping 3D hierarchical preserving agent for titanium dioxide nanostructures tailored for dye sensitized solar cells. <i>International Journal of Energy Research</i> , 2022, 46, 9533-9548.	2.2	6
26	Vibrational spectral studies of l-citrullinium perchlorate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 840-844.	2.0	5
27	Study of interaction between tin dioxide nanoparticle and 1,4-dihydroxy 2,3-dimethyl 9,10-anthraquinone sensitizer. <i>Journal of Luminescence</i> , 2013, 144, 74-78.	1.5	4
28	The quenching effect of silver nanoparticles on 2-amino-3-bromo-1, 4-naphthoquinone using fluorescence spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 276-281.	2.0	4
29	Reaction induced multifunctional TiO <sub>2</sub> rod/particle nanostructured materials for screen printed dye sensitized solar cells. <i>Ceramics International</i> , 2021, 47, 8094-8104.	2.3	4
30	Raman spectral studies on 2-hydroxyacetophenone in binary liquid mixtures. <i>Vibrational Spectroscopy</i> , 2012, 61, 30-37.	1.2	1
31	Micro-Raman characterization of InGaN/GaN single quantum well nanocolumns on Si(111) substrate. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 565-570.	0.3	1