DrSasirekha Venkidusamy

List of Publications by Year
in descending order

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	Impact of coupled plasmonic effect with multishaped silver nanoparticles on efficiency of dye sensitized solar cells. Journal of Alloys and Compounds, 2022, 894, 162339.	2.8	16
2	Structural exploration of interactions of (+) catechin and (â˜) epicatechin with bovine serum albumin: Insights from molecular dynamics and spectroscopic methods. Journal of Molecular Liquids, 2022, 348, 118026.	2.3	7
3	The use of urea as an Nâ€doping 3D hierarchical preserving agent for titanium dioxide nanostructures tailored for dyeâ€sensitized solar cells. International Journal of Energy Research, 2022, 46, 9533-9548.	2.2	6
4	Reaction induced multifunctional TiO2 rod/particle nanostructured materials for screen printed dye sensitized solar cells. Ceramics International, 2021, 47, 8094-8104.	2.3	4
5	Solvothermal fusion of Agâ€•and Nâ€doped LiTaO₃ perovskite nanospheres for improved photocatalytic hydrogen production. Applied Organometallic Chemistry, 2021, 35, e6207.	1.7	8
6	A comparative investigation on the scavenging of 2,2-diphenyl-1-picrylhydrazyl radical by the natural antioxidants (+) catechin and (-) epicatechin. Journal of Molecular Structure, 2021, 1242, 130805.	1.8	14
7	Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticles. Journal of Alloys and Compounds, 2021, 889, 161693.	2.8	17
8	Screen printed multifunctional TiO2 photoanode with plasmonic Ag nanoparticles for performance enhancement of dye sensitized solar cell. Materials Letters, 2020, 276, 128194.	1.3	7
9	Theoretical investigation on the structure and antioxidant activity of (+) catechin and (â˜) epicatechin â€“ a comparative study. Molecular Physics, 2020, 118, e1745917.	0.8	24
10	Dual morphology titanium dioxide for dye sensitized solar cells. Ceramics International, 2019, 45, 7268-7277.	2.3	19
11	Effect of microwave power irradiation on TiO2 nano-structures and binder free paste screen printed dye sensitized solar cells. Ceramics International, 2019, 45, 4667-4673.	2.3	20
12	Effect of electronic-insulating oxides overlayer on the performance of zinc oxide based dye sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 305, 37-44.	2.0	7
13	Influence of particle size on the phonon confinement of TiO₂nanoparticles. Journal of Experimental Nanoscience, 2014, 9, 661-668.	1.3	26
14	A facile hydrothermal synthesis of SrTiO3 for dye sensitized solar cell application. Journal of Alloys and Compounds, 2014, 586, 456-461.	2.8	111
15	Preparation and characterization of ZnO/graphene nanocomposite for improved photovoltaic performance. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	25
16	Microwave assisted synthesis of zinc stannate nanocubes for dye sensitized solar cell application. Superlattices and Microstructures, 2014, 75, 775-784.	1.4	11
17	The quenching effect of silver nanoparticles on 2-amino-3-bromo-1, 4-naphthoquinone using fluorescence spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 276-281.	2.0	4
18	Study of interaction between tin dioxide nanoparticle and 1,4-dihydroxy 2,3-dimethyl 9,10-anthraquinone sensitizer. Journal of Luminescence, 2013, 144, 74-78.	1.5	4

#	Article	IF	Citations
19	Micro-Raman characterization of InGaN/GaN single quantum well nanocolumns on Si(111) substrate. Journal of Applied Spectroscopy, 2013, 80, 565-570.	0.3	1
20	Raman spectral studies on 2â€²-hydroxyacetophenone in binary liquid mixtures. Vibrational Spectroscopy, 2012, 61, 30-37.	1.2	1
21	Microâ€Raman investigation of tin dioxide nanostructured material based on annealing effect. Journal of Raman Spectroscopy, 2011, 42, 1634-1639.	1.2	67
22	Preferential Solvation of 1,4-Dimethoxy-2,3-Dimethyl-9,10-Anthraquinone-A Spectrophotometric and Fluorometric Study. Journal of Fluorescence, 2009, 19, 419-426.	1.3	11
23	Solvatochromic study of 1,2-dihydroxyanthraquinone in neat and binary solvent mixtures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 148-155.	2.0	46
24	Study of preferential solvation of 2,6-diaminoanthraquinone in binary mixtures by absorption and fluorescence studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 626-633.	2.0	20
25	Solvatochromism and preferential solvation of 1,4-dihydroxy-2,3-dimethyl-9,10-anthraquinone by UVâ€“vis absorption and laser-induced fluorescence measurements. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 766-772.	2.0	24
26	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. Journal of Fluorescence, 2007, 17, 528-539.	1.3	17
27	Spectral investigations of amino acid picrates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 414-420.	2.0	33
28	Vibrational spectral analysis of dl-valine dl-valinium and dl-methionine dl-methioninium picrates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 955-963.	2.0	28
29	Laser Raman and infrared spectral studies of dl-phenylalaninium nitrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 62, 446-452.	2.0	24
30	Vibrational spectral studies of l-citrullinium perchlorate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 62, 840-844.	2.0	5
31	FT-IR and FT-Raman spectral studies of bis(L-proline) hydrogen nitrate and bis(L-proline) hydrogen perchlorate. Journal of Raman Spectroscopy, 2005, 36, 950-961.	1.2	25