

Ramesh Kumar Chitumalla

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

821
citations

16
h-index

27
g-index

51
ext. papers

973
ext. citations

3.6
avg, IF

4.16
L-index

#	Paper	IF	Citations
49	A density functional theory study on the underwater adhesion of catechol onto a graphite surface. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1031-1037	3.6	2
48	Unveiling the effect of TADF as an energy relay dye in fluorescence resonance energy transfer based solid-state dye-sensitized solar cells. <i>Journal of Molecular Structure</i> , 2021 , 1249, 131576	3.4	0
47	2,2'-Thiophenecarboxaldehyde derived thiosemicarbazone metal complexes of copper(II), palladium(II) and zinc(II) ions: Synthesis, spectroscopic characterization, anticancer activity and DNA binding studies. <i>Inorganica Chimica Acta</i> , 2021 , 524, 120440	2.7	2
46	Scalable processing method using waste polystyrene to produce nitrogen-enriched porous carbon for boosting supercapacitor performance. <i>Materials Letters</i> , 2021 , 300, 130135	3.3	2
45	Facile Green Synthesis of New Copper-Based Metal-Organic Frameworks: Experimental and Theoretical Study of the CO ₂ Fixation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	14
44	Enhanced DSSC performance by the introduction of hydroxamic acid group into the cyanoacetic acid dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 398, 112512	4.7	3
43	Porous aluminum-based DUT metal-organic frameworks for the transformation of CO ₂ into cyclic carbonates: A computationally supported study. <i>Catalysis Today</i> , 2020 , 352, 227-236	5.3	11
42	Gas-phase basicity and proton affinity measurements of Alzheimer's disease drugs by the extended kinetic method and a theoretical investigation. <i>European Journal of Mass Spectrometry</i> , 2020 , 26, 388-399	4.1	1
41	A New Series of EDOT Based Co-Sensitizers for Enhanced Efficiency of Cocktail DSSC: A Comparative Study of Two Different Anchoring Groups. <i>Molecules</i> , 2019 , 24,	4.8	12
40	Structure-based lead optimization to improve the antifungal potency of the tetrahydroimidazo pyridine inhibitors targeted to <i>Candida albicans</i> dihydrofolate reductase and lanosterol 14- α -demethylase. <i>Medicinal Chemistry Research</i> , 2019 , 28, 1674-1682	2.2	2
39	Adenine-Based Zn(II)/Cd(II) Metal-Organic Frameworks as Efficient Heterogeneous Catalysts for Facile CO Fixation into Cyclic Carbonates: A DFT-Supported Study of the Reaction Mechanism. <i>Inorganic Chemistry</i> , 2019 , 58, 11389-11403	5.1	46
38	The comparative study of new carboxylated 1,3-indanedione sensitizers with standard cyanoacetic acid dyes using co-adsorbents in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2019 , 715, 84-90	2.5	7
37	Phenothiazine derivatives as an easily accessible emitter for green light-emitting electrochemical cells. <i>Journal of Luminescence</i> , 2018 , 197, 383-388	3.8	14
36	Effectual binding of gallic acid with p-sulfonatocalix[4]arene: An experimental and theoretical interpretation. <i>Journal of Luminescence</i> , 2018 , 196, 392-398	3.8	5
35	Red-light-emitting electrochemical cells based on cationic iridium complexes with phenanthroimidazole-type ancillary ligand. <i>Organic Electronics</i> , 2018 , 54, 167-176	3.5	9
34	Single and double branched organic dyes based on carbazole and red-absorbing cationic indolium for p-type dye-sensitized solar cells: A combined experimental and theoretical investigation. <i>Dyes and Pigments</i> , 2018 , 149, 25-36	4.6	14
33	Investigation of the upper rim binding of triphenylpyrylium cation with p-sulfonatocalix[4]arene. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018 , 91, 161-169	1.7	1

32	The impact of heteroatom substitution on cross-conjugation and its effect on the photovoltaic performance of DSSCs - a computational investigation of linear vs. cross-conjugated anchoring units. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22660-22673	3.6	9
31	Spectral, electrochemical and computational investigations on the host-guest interaction of Coumarin-460 with p-sulfonatocalix[4]arene. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018 , 90, 51-60	1.7	6
30	Density functional theory study on ruthenium dyes and dye@TiO ₂ assemblies for dye sensitized solar cell applications. <i>Solar Energy</i> , 2018 , 159, 283-290	6.8	12
29	Synthesis and investigation of anchoring unit effect in blue-colored isoindigo-based DAA organic dyes for dye-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 122302	1.4	2
28	Molecular Engineering and Structure-Related Properties of Squaraine Dyes Based on the Core and Wings Concept. <i>ACS Omega</i> , 2018 , 3, 15416-15425	3.9	0
27	Synthesis, Spectral Properties and DFT Calculations of new Ruthenium (II) Polypyridyl Complexes; DNA Binding Affinity and in Vitro Cytotoxicity Activity. <i>Journal of Fluorescence</i> , 2017 , 27, 1513-1530	2.4	6
26	Inkjet-Printable Hydrochromic Paper for Encrypting Information and Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33071-33079	9.5	59
25	Effects of Cyclometalation on the Panchromatic Ruthenium Sensitizer for DSSC Applications. <i>Bulletin of the Korean Chemical Society</i> , 2017 , 38, 1209-1213	1.2	0
24	Spectral, Electrochemical and Computational Investigations of Binding of n-(4-Hydroxyphenyl)-imidazole with p-Sulfonatocalix[4]arene. <i>Journal of Fluorescence</i> , 2017 , 27, 2159-2164	2.4	3
23	Phenothiazine based blue emitter for light-emitting electrochemical cells. <i>New Journal of Chemistry</i> , 2017 , 41, 9668-9673	3.6	16
22	Green Electroluminescence from Charged Phenothiazine Derivative. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20247-20253	3.8	37
21	Alkyl chain length dependence of the charge-transfer, recombination and electron diffusion length on the photovoltaic performance in double donor-acceptor-based organic dyes for dye sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 133, 161-172	4.6	23
20	Synthesis of heteroleptic iridium complexes with sterically hindered methyl groups on pyrazole ligands for efficient yellow and green light-emitting electrochemical cells. <i>Dyes and Pigments</i> , 2016 , 128, 190-200	4.6	24
19	Fabrication of efficient light-emitting electrochemical cells utilizing thiazole- and pyridine-based cationic iridium complexes. <i>Electrochimica Acta</i> , 2016 , 195, 112-123	6.7	4
18	Adsorption of TCNQ and F4-TCNQ molecules on hydrogen-terminated Si(1 1 1) surface: van der Waals interactions included DFT study of the molecular orientations. <i>Computational and Theoretical Chemistry</i> , 2016 , 1084, 179-187	2	5
17	Impact of neutral and anion anchoring groups on the photovoltaic performance of triphenylamine sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 26559-26567	3.7	18
16	Synthesis of porphyrin sensitizers with a thiazole group as an efficient spacer: potential application in dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 41294-41303	3.7	10
15	Computational studies of hole/electron transport in positional isomers of linear oligo-thienoacenes: Evaluation of internal reorganization energies using density functional theory. <i>Computational and Theoretical Chemistry</i> , 2016 , 1089, 59-67	2	15

14	Host-Dopant System To Generate Bright Electroluminescence from Small Organic Molecule Functionalized Light-Emitting Electrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12207-12217	3.8	47
13	Photophysical, electrochemical, and quantum chemical properties of cationic iridium complexes with tunable emission color. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 780, 249-256	4.1	2
12	Chiral Pyrrolidine-Pyrazole Catalyzed Enantioselective Michael Addition: a Mechanistic Study by Computational Methods. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1554-1555	1.2	1
11	Synthesis and photophysical characterization of an ionic fluorene derivative for blue light-emitting electrochemical cells. <i>Organic Electronics</i> , 2015 , 24, 297-302	3.5	38
10	Tuning the Photovoltaic Performance of Benzocarbazole-Based Sensitizers for Dye-Sensitized Solar Cells: A Joint Experimental and Theoretical Study of the Influence of π -Spacers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17053-17064	3.8	44
9	Blue and blue-green light-emitting cationic iridium complexes: synthesis, characterization, and optoelectronic properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7741-51	9.5	48
8	Density functional theory study on the cross-linking of mussel adhesive proteins. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5496-504	3.4	20
7	Substituent effects on the croconate dyes in dye sensitized solar cell applications: a density functional theory study. <i>Journal of Molecular Modeling</i> , 2015 , 21, 297	2	5
6	Enantiomeric differentiation of β -amino alcohols under electrospray ionization mass spectrometric conditions. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 108-16	2.2	9
5	Thiocyanate-free cyclometalated ruthenium(II) sensitizers for DSSC: a combined experimental and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2630-40	3.6	46
4	Adsorption of croconate dyes on TiO ₂ anatase (101) surface: A periodic DFT study to understand the binding of diketo groups#. <i>Journal of Chemical Sciences</i> , 2012 , 124, 301-310	1.8	13
3	D- π -A organic dyes with carbazole as donor for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2011 , 161, 96-105	3.6	85
2	Novel 1,3,4-oxadiazole derivatives as efficient sensitizers for dye-sensitized solar cells: A combined experimental and computational study. <i>Synthetic Metals</i> , 2011 , 161, 1671-1681	3.6	35
1	A chiral pyrrolidine-pyrazole catalyst for the enantioselective Michael addition of carbonyls to nitroolefins. <i>Tetrahedron: Asymmetry</i> , 2011 , 22, 697-702		35