

Ramkrishna Dalui

List of Publications by Year in descending order

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papers

828
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516681

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#	ARTICLE	IF	CITATIONS
1	Electroactive and High Dielectric Folic Acid/PVDF Composite Film Rooted Simplistic Organic Photovoltaic Self-Charging Energy Storage Cell with Superior Energy Density and Storage Capability. ACS Applied Materials & Interfaces, 2017, 9, 24198-24209.	8.0	45
2	Anti-COVID-19 terpenoid from marine sources: A docking, admet and molecular dynamics study. Journal of Molecular Structure, 2021, 1228, 129433.	3.6	44
3	In silico fight against novel coronavirus by finding chromone derivatives as inhibitor of coronavirus main proteases enzyme. Structural Chemistry, 2020, 31, 1831-1840.	2.0	41
4	Molecular designing, crystal structure determination and in silico screening of copper(II) complexes bearing 8-hydroxyquinoline derivatives as anti-COVID-19. Bioorganic Chemistry, 2021, 110, 104772.	4.1	40
5	Multispectroscopic analysis and molecular modeling to investigate the binding of beta lactoglobulin with curcumin derivatives. RSC Advances, 2016, 6, 112175-112183.	3.6	33
6	Improving the thermal stability, electroactive β phase crystallization and dielectric constant of NiO nanoparticle/Ca ²⁺ NiO nanocomposite embedded flexible poly(vinylidene fluoride) thin films. RSC Advances, 2016, 6, 26288-26299.	3.6	33
7	Structure-activity relationship on DNA binding and anticancer activities of a family of mixed-ligand oxidovanadium(V) hydrazone complexes. Journal of Biomolecular Structure and Dynamics, 2018, 36, 4143-4155.	3.5	29
8	A crystallography-based investigation of weak interactions for drug design against COVID-19. Physical Chemistry Chemical Physics, 2021, 23, 7261-7270.	2.8	26
9	Multitargeting Antibacterial Activity of a Synthesized Mn ²⁺ Complex of Curcumin on Gram-Positive and Gram-Negative Bacterial Strains. ACS Omega, 2020, 5, 16342-16357.	3.5	25
10	4 ⁺ Chlorochalcone-Assisted Electroactive Polyvinylidene Fluoride Film-Based Energy Storage System Capable of Self-Charging Under Light. Energy Technology, 2017, 5, 2205-2215.	3.8	24
11	Characterization of the binding of strychnine with bovine β -lactoglobulin and human lysozyme using spectroscopic, kinetic and molecular docking analysis. New Journal of Chemistry, 2018, 42, 8615-8628.	2.8	24
12	A family of mixed-ligand oxidovanadium(V) complexes with aroylhydrazone ligands: a combined experimental and computational study on the electronic effects of para substituents of hydrazone ligands on the electronic properties, DNA binding and nuclease activities. RSC Advances, 2015, 5, 92456-92472.	3.6	21
13	An efficient synthesis of 1,3-dimethyl-5-(2-phenyl-4H-chromen-4-ylidene) pyrimidine-2,4,6(1H,3H,5H)-triones and investigation of their interactions with β -lactoglobulin. RSC Advances, 2016, 6, 96016-96024.	3.6	21
14	Synthesis of 6,12-Methanobenzo[d]pyrano[3,4-g][1,3]dioxocin-1(12H)-ones and Study of Their Interaction with DNA and β -Lactoglobulin. European Journal of Organic Chemistry, 2017, 2017, 6013-6022.	2.4	21
15	Exploring the effect of substituent in the hydrazone ligand of a family of β -4-oxidovanadium(V) hydrazone complexes on structure, DNA binding and anticancer activity. Dalton Transactions, 2017, 46, 16276-16293.	3.3	19
16	Ligand substituent effect on the cytotoxicity activity of two new copper(II) complexes bearing 8-hydroxyquinoline derivatives: validated by MTT assay and apoptosis in MCF-7 cancer cell line (human breast cancer). RSC Advances, 2021, 11, 14362-14373.	3.6	19
17	Mixed phenoxo and azido bridged dinuclear nickel(II) and copper(II) compounds with N,N,O-donor Schiff bases: Synthesis, structure, DNA binding, DFT and molecular docking study. Inorganica Chimica Acta, 2019, 484, 197-205.	2.4	18
18	Exploring the Noncovalent Interactions of the Dinuclear Cu(II) Schiff Base Complex with Bovine Serum Albumin and Cell Viability against the SiHa Cancer Cell Line. Journal of Physical Chemistry B, 2021, 125, 11364-11373.	2.6	15

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19	A facile synthesis of 2-(2-phenyl-4H-chromen-4-ylidene)-2H-indene-1,3-diones and related compounds involving an interesting aerial oxidation. <i>Tetrahedron Letters</i> , 2015, 56, 4954-4958.	1.4	14
20	The structural characterization and biological activity of sulfamethoxazolyl-azo-p-cresol, its copper(<i>II</i>) complex and their theoretical studies. <i>New Journal of Chemistry</i> , 2016, 40, 5019-5031.	2.8	14
21	Curious Results in the Prospective Binding Interactions of the Food Additive Tartrazine with β -Lactoglobulin. <i>Langmuir</i> , 2019, 35, 11579-11589.	3.5	14
22	Modulation of amyloid fibrillation of bovine β -lactoglobulin by selective methionine oxidation. <i>RSC Advances</i> , 2021, 11, 11192-11203.	3.6	14
23	Identification of natural flavonoids as novel EGFR inhibitors using DFT, molecular docking, and molecular dynamics. <i>New Journal of Chemistry</i> , 2022, 46, 9735-9744.	2.8	13
24	Synthesis of several types of 2,8-dioxabicyclo[3.3.1]nonanes using amberlyst-15 as an efficient recyclable heterogeneous catalyst. <i>Synthetic Communications</i> , 2017, 47, 2195-2201.	2.1	12
25	An efficient three-component synthesis of coumarin-3-carbamides by use of NiO nanoparticles as magnetically separable catalyst. <i>RSC Advances</i> , 2015, 5, 70718-70725.	3.6	11
26	Inhibition of amyloid fibril formation of β -lactoglobulin by natural and synthetic curcuminoids. <i>New Journal of Chemistry</i> , 2018, 42, 19260-19271.	2.8	11
27	Self-assembling behaviour of a modified aromatic amino acid in competitive medium. <i>Soft Matter</i> , 2020, 16, 6599-6607.	2.7	11
28	Mononuclear copper(<i>II</i>) Schiff base complex: synthesis, structure, electrical analysis and protein binding study. <i>New Journal of Chemistry</i> , 2021, 45, 2995-3006.	2.8	11
29	Crystallography-based exploration of non-covalent interactions for the design and synthesis of coumarin for stronger protein binding. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6605-6615.	2.8	11
30	Synthesis and Chemical Reactivity of 4-hydroxy-1-benzopyran-3-carboxaldehyde. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, E1.	2.6	9
31	Physico-chemical property-driven dielectric behaviour and catalytic activity of nanocrystalline mullite synthesized from monophasic precursor gel. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 769-782.	2.4	9
32	Development of oxidovanadium and oxido-peroxido vanadium-based artificial DNA nucleases via multi spectroscopic investigations and theoretical simulation of DNA binding. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 919-927.	3.5	9
33	Enhancement of Thermoelectric Performance in Oligomeric PEDOT-SWCNT Nanocomposite via Band Gap Tuning. <i>ChemistrySelect</i> , 2018, 3, 8992-8997.	1.5	9
34	Silver nanoparticle modulates the aggregation of beta-lactoglobulin and induces to form rod-like aggregates. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 596-604.	7.5	9
35	Catalytic efficiency of β -cyclodextrin hydrate-chemoselective reaction of indoles with aldehydes in aqueous medium. <i>Tetrahedron Letters</i> , 2020, 61, 152231.	1.4	9
36	Simultaneous formation of non-oxidovanadium(<i>IV</i>) and oxidovanadium(<i>V</i>) complexes incorporating phenol-based hydrazone ligands in aerobic conditions. <i>New Journal of Chemistry</i> , 2020, 44, 3700-3716.	2.8	9

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37	Visible light assisted photo-electrocatalytic oxidation of methanol using low Pt content NiO-rutile TiO ₂ ternary heterojunction. <i>Applied Surface Science</i> , 2021, 541, 148450.	6.1	9
38	Supramolecular assemblies of a 1,8-naphthalimide conjugate and its aggregation-induced emission property. <i>Materials Advances</i> , 2020, 1, 3532-3538.	5.4	8
39	Hydrophobicity-induced DNA, BSA binding, and biomaterial applications of a heteroleptic Cu(II) complex. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	3.5	8
40	A facile synthesis of 2-aryl-4-(indol-3-yl)-4H-chromenes using amberlyst-15 as an efficient recyclable heterogeneous catalyst. <i>Monatshefte für Chemie</i> , 2015, 146, 1349-1354.	1.8	7
41	Design and Synthesis of Near-Infrared Mechanically Interlocked Molecules for Specific Targeting of Mitochondria. <i>Organic Letters</i> , 2020, 22, 5839-5843.	4.6	7
42	Deciphering the role of the head group of cationic surfactants in their binding interactions with heme protein and their release by β -cyclodextrin. <i>New Journal of Chemistry</i> , 2018, 42, 14914-14925.	2.8	6
43	Bovine serum albumin interactive one dimensional hexanuclear manganese(II) complex: synthesis, structure, binding and molecular docking studies. <i>New Journal of Chemistry</i> , 2021, 45, 12678-12687.	2.8	6
44	Coumarin derivatives inhibit the aggregation of β -lactoglobulin. <i>RSC Advances</i> , 2022, 12, 17020-17028.	3.6	6
45	Antibacterial activities of sulfamethoxazolyl-azo-phenols and their Cu(II) complexes along with molecular docking properties. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 833-850.	2.6	5
46	Design and synthesis of a new class of 2,4-thiazolidinedione based macrocycles suitable for Fe ³⁺ -sensing. <i>New Journal of Chemistry</i> , 2018, 42, 15270-15276.	2.8	5
47	Structural alteration of myoglobin with two homologous cationic surfactants and effect of β -cyclodextrin: multifaceted insight and molecular docking study. <i>New Journal of Chemistry</i> , 2020, 44, 19555-19569.	2.8	5
48	Newly designed Mn(III)-W(V) bimetallic assembly built by manganese(III) Schiff-base and octacyanotungstate(V) building blocks: Structural topologies, and magnetic features. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5914.	3.5	5
49	Facile synthesis and characterization of beta lactoglobulin-copper nanocomposites having antibacterial applications. <i>RSC Advances</i> , 2016, 6, 85340-85346.	3.6	4
50	Facile Synthesis of a New Class of Pyrazolone Attached Chromene Derivatives Showing Good Binding with β -Lactoglobulin. <i>ChemistrySelect</i> , 2018, 3, 5138-5142.	1.5	4
51	Synthesis, characterization, and cytotoxic and antimicrobial activities of mixed-ligand hydrazone complexes of variable valence VO ₂ (L) ₂ (L = 2, 3). <i>New Journal of Chemistry</i> , 2019, 43, 16714-16729.	2.8	4
52	Novel chalcones as Bcl-2 inhibitor in lung cancer: docking, design and synthesis of 2,3-Tetrasubstituted-2,3-dihydrobenzofuran-3-carboxamides. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	4
53	Antioxidant ferulic acid prevents the aggregation of bovine β -lactoglobulin in vitro. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	4
54	On the regioselectivity of the amberlyst-15 catalyzed condensation of 2-hydroxychalcones and 4,4-dimethylcyclohexane-1,3-dione. <i>Monatshefte für Chemie</i> , 2018, 149, 2113-2121.	1.8	3

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55	Synthesis, characterization, theoretical simulation, and DNA-nuclease activity of a newly synthesized Mn ^{II} -oximate complex. <i>Journal of Coordination Chemistry</i> , 2018, 71, 3250-3265.	2.2	3
56	Factors for COVID-19 Infection that Govern the Severity of Illness. <i>SciMedicine Journal</i> , 2021, 3, 177-197.	0.7	3
57	Spectroscopic characterization, structural investigation, DFT study, and Hirshfeld surface analysis of rhodium and ruthenium amido azo complexes. <i>Journal of Molecular Structure</i> , 2021, 1241, 130671.	3.6	3
58	A study of DNA/BSA interaction and catalytic potential of oxidovanadium(V, IV) complexes incorporating dibenzofuran based O ^N O ligand. <i>Journal of Organometallic Chemistry</i> , 2022, 961, 122244.	1.8	3
59	Significant photodegradation of carcinogenic organic dyes by a 1D supramolecular heteroleptic Cu(^{II}) complex under sunlight irradiation. <i>New Journal of Chemistry</i> , 2022, 46, 11804-11811.	2.8	3
60	β-Sheet Induced Helical Self-Assembly Structure Formation by Dityrosine Dipeptide: Crystallographic Evidence and Other Biophysical Studies. <i>Journal of Physical Chemistry B</i> , 0, , .	2.6	3
61	Remarkable Diastereoselectivity of the Thia-Michael Reaction on β -Di[(E)-benzylidene]alkanones: Exclusive Formation of a meso Product. <i>Synlett</i> , 2018, 29, 1161-1166.	1.8	2
62	Access to chromone-3-carboxylic acid via silver mediated coupling of 4-hydroxy coumarin and enol ester. <i>Tetrahedron Letters</i> , 2021, 75, 153206.	1.4	2
63	Spacers directed self-assembly of heterobimetallic copper(II)-lanthanide(III) [Ln = Nd and Gd] moieties: syntheses, structural diversities and magnetic properties. <i>Polyhedron</i> , 2022, , 115718.	2.2	2
64	A family of amphiphilic dioxidovanadium(V) hydrazone complexes as potent carbonic anhydrase inhibitors along with anti-diabetic and cytotoxic activities. <i>BioMetals</i> , 2022, 35, 499-517.	4.1	2
65	Fluxional chloro-pyrrole-Pd(II) complex to cationic 2-pyrrole-Pd(II) complex: subtlety in structure-directed bonding mode. <i>New Journal of Chemistry</i> , 2021, 45, 10594-10598.	2.8	1
66	Anti-COVID-19 Sulfonamides: A DFT, docking and ADMET study. <i>Coronaviruses</i> , 2021, 02, .	0.3	1
67	Influence of the cavity size of cyclodextrins on the photochromism of azoimidazoles. <i>Journal of the Indian Chemical Society</i> , 2021, , 100295.	2.8	1
68	Aerobic epoxidation of olefins by carboxylate ligand-based cobalt (II) compound: synthesis, X-ray crystallography, and catalytic exploration. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	3.5	1
69	Crystal Structures of Two Macrocyclic Bischalcones Possessing 26-Membered Rings. <i>Journal of Crystallography</i> , 2015, 2015, 1-5.	0.0	0
70	Simple Diastereoselective Synthesis of (2S*,2aR*,3aR*,4S*)-2,3-Diphenylspiro[chroman-3,2-oxiran]-4-ols and (2S*,2aR*,3aS*,4S*)-2,3-Diphenylspiro[chroman-3,2-oxiran]-4-ols. <i>Organic Preparations and Procedures International</i> , 2018, 50, 100-107.	1.3	0
71	3-[4-Bromo-1-(R*)-methoxybenzyl]-6-chloro-3(S*),4(S*)-dihydrochroman: X-ray and DFT Studies. <i>Crystallography Reports</i> , 2018, 63, 394-400.	0.6	0
72	SYNTHESIS OF A SERIES OF 2-INDOLYLMETHYLENE-LINKED COMPOUNDS BY THERMAL KNOEVENAGEL CONDENSATION UNDER CATALYST- AND SOLVENT-FREE CONDITIONS. <i>European Chemical Bulletin</i> , 2017, 6, 45.	2.7	0

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73	Base-promoted cyclocondensation of (1E,4E)-1,5-diaryl-penta-1,4-dien-3-ones with guanidine hydrochloride: facile synthesis of E-2-amino-4-aryl-6-(2-arylethenyl)pyrimidines. MOJ Bioorganic & Organic Chemistry, 2018, 2, .	0.1	0