Malay Dolai

List of Publications by Year
in descending order

62	855	516561 16	580701 25
papers	citations	h-index	g-index

64	64	64	1072
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A highly selective and sensitive in vivo fluorosensor for zinc(ii) without cytotoxicity. Organic and Biomolecular Chemistry, 2012, 10, 2380.	1.5	76
2	Diversity in supramolecular self-assembly through hydrogen-bonding interactions of non-coordinated aliphatic â€“OH group in a series of heterodinuclear CuIIM (M=NaI, ZnII, HgII, SmIII, BiIII,) Tj ETQq0 1 0.20 rgBT /Overlock 1	1.2	42
3	Cu(<scp>ii</scp>)â€“Dy(<scp>iii</scp>) and Co(<scp>iii</scp>)â€“Dy(<scp>iii</scp>) based single molecule magnets with multiple slow magnetic relaxation processes in the Cu(<scp>ii</scp>)â€“Dy(<scp>iii</scp>) complex. Dalton Transactions, 2015, 44, 13242-13249.	1.6	41
4	Solvent-Regulated Fluorimetric Differentiation of Al³⁺ and Zn²⁺ Using an AIE-Active Single Sensor. Journal of Physical Chemistry A, 2021, 125, 1490-1504.	1.1	38
5	A novel chemosensor based on rhodamine and azobenzene moieties for selective detection of Al³⁺ ions. New Journal of Chemistry, 2018, 42, 10191-10201.	1.4	37
6	A novel thermally stable hydroperoxoâ€“copper(ii) complex in a Cu(N2O2) chromophore of a potential N4O2 donor Schiff base ligand: synthesis, structure and catalytic studies. Dalton Transactions, 2013, 42, 13210.	1.6	33
7	Multiple ion (Al3+, Cr3+, Fe3+, and Cu2+) sensing using a cell-compatible rhodamine-phenolphthalein-derived Schiff-base probe. Journal of Molecular Liquids, 2022, 354, 118824.	2.3	33
8	A 7-nitrobenz-2-oxa-1,3-diazole based highly sensitive and selective turn-on chemosensor for copper(ii) ion with intracellular application without cytotoxicity. Organic and Biomolecular Chemistry, 2013, 11, 1563.	1.5	30
9	Rhodamineâ€Based Chromoâ€Fluorogenic Dual Signalling Probe for Selective Recognition of Hg^{II} with Potential Applications for INHIBIT Logic Devices and Cellâ€Imaging Studies. European Journal of Inorganic Chemistry, 2013, 2013, 5854-5861.	1.0	26
10	Rhodamine-azobenzene based single molecular probe for multiple ions sensing: Cu2+, Al3+, Cr3+ and its imaging in human lymphocyte cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 319-332.	2.0	26
11	Catalytic formation of N3-substituted quinazoline-2,4(1H,3H)-diones by Pd(<scp>ii</scp>)EN@GO composite and its mechanistic investigations through DFT calculations. New Journal of Chemistry, 2020, 44, 141-151.	1.4	26
12	Adaptable sensor for employing fluorometric detection of methanol molecules: theoretical aspects and DNA binding studies. New Journal of Chemistry, 2019, 43, 8982-8992.	1.4	22
13	Single sensors for multiple analytes employing fluorometric differentiation for Cr³⁺ and Al³⁺ in semi-aqueous medium with bio-activity and theoretical aspects. Analytical Methods, 2018, 10, 4063-4072.	1.3	21
14	Mononuclear manganese(<scp>iii</scp>) complexes of bidentate NO donor Schiff base ligands: synthesis, structural characterization, magnetic and catecholase studies. RSC Advances, 2015, 5, 23855-23864.	1.7	19
15	Anthracene-triazole-dicarboxylate-Based Zn(II) 2D Metal Organic Frameworks for Efficient Catalytic Carbon Dioxide Fixation into Cyclic Carbonates under Solvent-Free Condition and Theoretical Study for the Reaction Mechanism. Industrial & Engineering Chemistry Research, 2022, 61, 175-186.	1.8	18
16	Adaptable DNA-Interactive Probe Proficient at Selective Turn-On Sensing for Al³⁺: Insight from the Crystal Structure, Photophysical Studies, and Molecular Logic Gate. ACS Omega, 2020, 5, 18411-18423.	1.6	17
17	Slow magnetic relaxation in Cu(<scp>ii</scp>)â€“Eu(<scp>iii</scp>) and Cu(<scp>ii</scp>)â€“La(<scp>iii</scp>) complexes. New Journal of Chemistry, 2019, 43, 12698-12701.	1.4	16
18	Water-Stable Manganese(IV) Complex of a N₂O₄-Donor Non-Schiff-Base Ligand: Synthesis, Structure, and Multifrequency High-Field Electron Paramagnetic Resonance Studies. Inorganic Chemistry, 2014, 53, 5423-5428.	1.9	15

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19	Synthesis, structure, catalytic and magnetic properties of a pyrazole based five coordinated di-nuclear cobalt(II) complex. Polyhedron, 2016, 106, 84-91.	1.0	14
20	Three novel mononuclear Mn(<scp>iii</scp>)-based magnetic materials with square pyramidal versus octahedral geometries. New Journal of Chemistry, 2017, 41, 10890-10898.	1.4	14
21	Amidooximeâ€Based Mononuclear Mn(II) Complexes: Synthesis, Characterization, and Studies on DNA Binding and Nuclease Activity. ChemistrySelect, 2018, 3, 6935-6941.	0.7	13
22	Synthesis, structure and DNA binding studies of oxime based [Mn3(Âµ3-O)]7+ complex. Inorganica Chimica Acta, 2018, 483, 211-217.	1.2	13
23	Mono- and dinuclear oxidovanadium(<scp>v</scp>) complexes of an amine-bis(phenolate) ligand with bromo-peroxidase activities: synthesis, characterization, catalytic, kinetic and computational studies. Dalton Transactions, 2018, 47, 2799-2809.	1.6	12
24	Novel Cu^{II}â€“M^{II}â€“Cu^{II}(M = Cu or Ni) trinuclear and [NaI2CuII6] hexanuclear complexes assembled by bi-compartmental ligands: syntheses, structures, magnetic and catalytic studies. Dalton Transactions, 2015, 44, 9426-9438.	1.6	11
25	Biophysical and Thermodynamic Investigations on the Differentiation of Fluorescence Response towards Interaction of DNA: A Pyrene-Based Receptor versus Its Fe(III) Complex. ACS Applied Bio Materials, 2020, 3, 7810-7820.	2.3	11
26	A bio-compatible pyridineâ€“pyrazole hydrazide based compartmental receptor for Al³⁺ sensing and its application in cell imaging. Analytical Methods, 2021, 13, 4266-4279.	1.3	11
27	Oxime Based Selective Fluorescent Sensor for Arsenate Ion in a Greener Way with Bio-Imaging Application. Analytical Sciences, 2016, 32, 1295-1300.	0.8	10
28	Hydrothermal synthesis of two supramolecular inorganicâ€“organic hybrid phosphomolybdates based on Ni(<scp>ii</scp>) and Co(<scp>ii</scp>) ions: structural diversity and heterogeneous catalytic activities. New Journal of Chemistry, 2016, 40, 6931-6938.	1.4	10
29	Synthetic and structural investigations of Cd(II) complexes of tetradentate pyrimidine based Schiff base ligand: Insight through non-covalent interactions, TDDFT calculation and Hirshfeld surface analysis. Journal of Molecular Structure, 2019, 1178, 682-691.	1.8	10
30	Dinuclear Cu^{II}â€“Cu^{II} and Cu^Iâ€“Cu^{II} Complexes of a Compartmental Ligand â€“ Syntheses, Structures, Magnetic, and Catalytic Studies. European Journal of Inorganic Chemistry, 2013, 2013, 4922-4930.	1.0	9
31	A novel pyrene-2-(pyridin-2-ylmethylsulfanyl)ethylamine based turn-on dual sensor for Al³⁺: experimental and computational studies. RSC Advances, 2014, 4, 41784-41792.	1.7	9
32	Synthesis of 2D polymeric dicyanamide bridged hexa-coordinated Cu(II) complex: Structural characterization, spectral studies and TDDFT calculation. Journal of Molecular Structure, 2014, 1075, 286-291.	1.8	9
33	Mn^{II}- and Co^{II}-Catalyzed Transformation of 2-Cyanopyrimidine to Methylimidate by Sodium Azide: Isolation, Structural Characterization, and Magnetic Studies on 2D Mn^{II}- and Cu^{II}-Complexes. Inorganic Chemistry, 2015, 54, 7030-7037.	1.9	9
34	New DNA-Interactive Manganese(II) Complex of Amidooxime: Crystal Structure, DFT Calculation, Biophysical and Molecular Docking Studies. Journal of Chemical & Engineering Data, 2020, 65, 5393-5404.	1.0	9
35	Targeting nucleic acid with a bioactive fluorophore: Insights from spectroscopic and calorimetric studies. Journal of Molecular Structure, 2020, 1220, 128690.	1.8	9
36	Copper(ii) induced oxidative modification and complexation of a schiff base ligand: synthesis, crystal structure, catalytic oxidation of aromatic hydrocarbons and DFT calculation. RSC Advances, 2014, 4, 34248-34256.	1.7	8

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37	A naphthalene-based azo armed molecular framework for selective sensing of Al³⁺. New Journal of Chemistry, 2022, 46, 6885-6898.	1.4	8
38	Solventâ€Dependent Oximeâ€“Azide and Oximeâ€“Nitrile Coupling: Crystallographic and Catalytic Studies. ChemPlusChem, 2014, 79, 1649-1656.	1.3	7
39	Acetate ion augmented fluorescence sensing of Zn²⁺ by Salenâ€based probe, AIE character, and application for picric acid detection. Analytical Science Advances, 2021, 2, 447-463.	1.2	7
40	Synthesis, X-ray crystal structure and BVS calculation of Co(II) complex of pyrimidine derived Schiff base ligand: Approached by Hirshfeld surface analysis and TDDFT calculation. Journal of Molecular Structure, 2021, 1236, 130269.	1.8	7
41	Exchange-Bias Quantum Tunneling of the Magnetization in a Dysprosium Dimer. Journal of Physical Chemistry A, 2021, 125, 8230-8237.	1.1	7
42	A cell-compatible phenolphthalein-aminophenol scaffold for Al3+sensing assisted by CHEF phenomenon. Journal of Molecular Structure, 2022, 1253, 132295.	1.8	7
43	Ïƒ-Aromaticity in dinuclear copper(ii) complexes: Novel interaction between perchlorate anion and Ïƒ-aromatic [Cu2X2] (X = N or O) core. CrystEngComm, 2012, 14, 4972.	1.3	6
44	Two [Mn3(Âµ3-O)]7+ based Single Chain Magnets with different solvent ligation. Polyhedron, 2017, 127, 248-256.	1.0	6
45	DNA intercalative trinuclear Cu(<scp>ii</scp>) complex with new trans axial nitrato ligation as an efficient catalyst for atmospheric CO₂ fixation to epoxides. CrystEngComm, 2020, 22, 8374-8386.	1.3	6
46	A simple Cu(II) complex of phenolic oxime: synthesis, crystal structure, supramolecular interactions, DFT calculation and catecholase activity study. Heliyon, 2020, 6, e04942.	1.4	6
47	Bovine serum albumin interactive one dimensional hexanuclear manganese(<scp>iii</scp>) complex: synthesis, structure, binding and molecular docking studies. New Journal of Chemistry, 2021, 45, 12678-12687.	1.4	6
48	Two dinuclear oxidovanadium(V) complexes of N2O2 donor amine-bis(phenolate) ligands with bromo-peroxidase activities: Kinetic, catalytic and computational studies. Inorganica Chimica Acta, 2018, 480, 149-158.	1.2	5
49	Multidimensional CuII incorporated POMs [KI2CuII(en)2(Î²-Mo8O26)]n and [KI2CuII3(H2O)10(W12O40)0.2(H2O)]n: Syntheses, structures and catalytic epoxidation. Polyhedron, 2020, 176, 114204.	1.0	5
50	Investigation of electrical conductance properties, non-covalent interactions and TDDFT calculation of a newly synthesized copper(II) metal complex. Journal of Molecular Structure, 2020, 1206, 127663.	1.8	5
51	Design and synthesis of a sulphur containing Schiff base drug: DNA binding studies and theoretical calculations. Journal of Biomolecular Structure and Dynamics, 2021, 39, 263-271.	2.0	5
52	Combined theoretical and experimental investigation of a DNA interactive poly-hydroxyl enamine tautomer exhibiting â€œturn onâ€•sensing for Zn²⁺ in pseudo-aqueous medium. New Journal of Chemistry, 2021, 45, 20806-20817.	1.4	5
53	Chemistry of transition metal carbene complexes: nucleophilic substitution reactions of cyanamide anion to Fischer carbene complexes. Dalton Transactions, 2013, 42, 567-576.	1.6	4
54	A cell-compatible red light-emitting multianalyte chemosensor via three birds, one stone strategy. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112889.	2.0	4

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55	Two new twisted helical nickel(II) and cobalt(III) octahedral monomer complexes: Synthesis and structural characterization. Journal of Chemical Sciences, 2014, 126, 1647-1653.	0.7	3
56	Synthesis, Crystal Structures, and Magnetic and Catalytic Studies on a Linear Trinuclear Mn^{II}₃ Complex. ChemPlusChem, 2015, 80, 1440-1447.	1.3	3
57	Synthesis, structural characterization and DFT calculation on a square-planar Ni(II) complex of a compartmental Schiff base ligand. Journal of Molecular Structure, 2016, 1125, 688-695.	1.8	3
58	Two new mononuclear cobalt(II) complexes of pyrazole-based ligands: synthesis, structures and magnetic studies. Transition Metal Chemistry, 2016, 41, 347-355.	0.7	3
59	Diformylphloroglucinol derived imine based covalent organic frameworks (PHTA) as efficient organocatalyst for conversion of isocyanates to urea derivatives. Molecular Catalysis, 2022, 522, 112213.	1.0	2
60	First crystallographic report on a novel 2D layer of water pentagons: L5(7) water motif enclathrating [Co(cyclam)Cl2]. Inorganic Chemistry Communication, 2012, 24, 157-161.	1.8	1
61	Design, synthesis and structural optimization of two click modified butterfly molecules: Aggregation induced ratiometric fluorescence change and ICT associated hydrogen bonding effect in solvatochromic analysis. Journal of Molecular Structure, 2019, 1181, 329-337.	1.8	1
62	Fashionable Co-operative Sensing of Bivalent Zn2+ and Cd2+ in Attendance of OAcâ¯ by Use of Simple Sensor: Exploration of Molecular Logic Gate and Docking Studies. Journal of Fluorescence, 0, , .	1.3	1