

Malay Dolai

List of Publications by Year in descending order

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papers

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times ranked

1072
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#	ARTICLE	IF	CITATIONS
1	A cell-compatible phenolphthalein-aminophenol scaffold for Al ³⁺ sensing assisted by CHEF phenomenon. <i>Journal of Molecular Structure</i> , 2022, 1253, 132295.	1.8	7
2	A naphthalene-based azo armed molecular framework for selective sensing of Al ³⁺ . <i>New Journal of Chemistry</i> , 2022, 46, 6885-6898.	1.4	8
3	Diformylphloroglucinol derived imine based covalent organic frameworks (PHTA) as efficient organocatalyst for conversion of isocyanates to urea derivatives. <i>Molecular Catalysis</i> , 2022, 522, 112213.	1.0	2
4	Multiple ion (Al ³⁺ , Cr ³⁺ , Fe ³⁺ , and Cu ²⁺) sensing using a cell-compatible rhodamine-phenolphthalein-derived Schiff-base probe. <i>Journal of Molecular Liquids</i> , 2022, 354, 118824.	2.3	33
5	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. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 175-186.	1.8	18
6	A cell-compatible red light-emitting multianalyte chemosensor via three birds, one stone strategy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 404, 112889.	2.0	4
7	Design and synthesis of a sulphur containing Schiff base drug: DNA binding studies and theoretical calculations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 263-271.	2.0	5
8	Bovine serum albumin interactive one dimensional hexanuclear manganese(III) complex: synthesis, structure, binding and molecular docking studies. <i>New Journal of Chemistry</i> , 2021, 45, 12678-12687.	1.4	6
9	Acetate ion augmented fluorescence sensing of Zn ²⁺ by Salen-based probe, AIE character, and application for picric acid detection. <i>Analytical Science Advances</i> , 2021, 2, 447-463.	1.2	7
10	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. <i>Journal of Molecular Structure</i> , 2021, 1236, 130269.	1.8	7
11	Exchange-Bias Quantum Tunneling of the Magnetization in a Dysprosium Dimer. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8230-8237.	1.1	7
12	A bio-compatible pyridine-pyrazole hydrazide based compartmental receptor for Al ³⁺ sensing and its application in cell imaging. <i>Analytical Methods</i> , 2021, 13, 4266-4279.	1.3	11
13	Solvent-Regulated Fluorimetric Differentiation of Al ³⁺ and Zn ²⁺ Using an AIE-Active Single Sensor. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1490-1504.	1.1	38
14	Combined theoretical and experimental investigation of a DNA interactive poly-hydroxyl enamine tautomer exhibiting turn-on sensing for Zn ²⁺ in pseudo-aqueous medium. <i>New Journal of Chemistry</i> , 2021, 45, 20806-20817.	1.4	5
15	Multidimensional CuII incorporated POMs [K12CuII(en)2(1 ² -Mo8O26)] _n and [K12CuII3(H2O)10(W12O40)0.2(H2O)] _n : Syntheses, structures and catalytic epoxidation. <i>Polyhedron</i> , 2020, 176, 114204.	1.0	5
16	Investigation of electrical conductance properties, non-covalent interactions and TDDFT calculation of a newly synthesized copper(II) metal complex. <i>Journal of Molecular Structure</i> , 2020, 1206, 127663.	1.8	5
17	Catalytic formation of N3-substituted quinazoline-2,4(1 <i>H</i> ,3 <i>H</i>)-diones by Pd(EN@GO) composite and its mechanistic investigations through DFT calculations. <i>New Journal of Chemistry</i> , 2020, 44, 141-151.	1.4	26
18	New DNA-Interactive Manganese(II) Complex of Amidooxime: Crystal Structure, DFT Calculation, Biophysical and Molecular Docking Studies. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 5393-5404.	1.0	9

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19	DNA intercalative trinuclear Cu(II) complex with new trans axial nitrate ligation as an efficient catalyst for atmospheric CO ₂ fixation to epoxides. CrystEngComm, 2020, 22, 8374-8386.	1.3	6
20	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
21	Adaptable DNA-Interactive Probe Proficient at Selective Turn-On Sensing for Al ³⁺ : Insight from the Crystal Structure, Photophysical Studies, and Molecular Logic Gate. ACS Omega, 2020, 5, 18411-18423.	1.6	17
22	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
23	Targeting nucleic acid with a bioactive fluorophore: Insights from spectroscopic and calorimetric studies. Journal of Molecular Structure, 2020, 1220, 128690.	1.8	9
24	Slow magnetic relaxation in Cu(II)–Eu(III) and Cu(II)–La(III) complexes. New Journal of Chemistry, 2019, 43, 12698-12701.	1.4	16
25	Rhodamine-azobenzene based single molecular probe for multiple ions sensing: Cu ²⁺ , Al ³⁺ , Cr ³⁺ and its imaging in human lymphocyte cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 319-332.	2.0	26
26	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
27	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
28	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
29	Mono- and dinuclear oxidovanadium(V) 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
30	A novel chemosensor based on rhodamine and azobenzene moieties for selective detection of Al ³⁺ ions. New Journal of Chemistry, 2018, 42, 10191-10201.	1.4	37
31	Two dinuclear oxidovanadium(V) complexes of N ₂ O ₂ donor amine-bis(phenolate) ligands with bromo-peroxidase activities: Kinetic, catalytic and computational studies. Inorganica Chimica Acta, 2018, 480, 149-158.	1.2	5
32	Amidooxime-Based Mononuclear Mn(II) Complexes: Synthesis, Characterization, and Studies on DNA Binding and Nuclease Activity. ChemistrySelect, 2018, 3, 6935-6941.	0.7	13
33	Synthesis, structure and DNA binding studies of oxime based [Mn ₃ (μ ₃ -O)] ⁷⁺ complex. Inorganica Chimica Acta, 2018, 483, 211-217.	1.2	13
34	Single sensors for multiple analytes employing fluorometric differentiation for Cr ³⁺ and Al ³⁺ in semi-aqueous medium with bio-activity and theoretical aspects. Analytical Methods, 2018, 10, 4063-4072.	1.3	21
35	Two [Mn ₃ (μ ₃ -O)] ⁷⁺ based Single Chain Magnets with different solvent ligation. Polyhedron, 2017, 127, 248-256.	1.0	6
36	Three novel mononuclear Mn(III)-based magnetic materials with square pyramidal versus octahedral geometries. New Journal of Chemistry, 2017, 41, 10890-10898.	1.4	14

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37	Synthesis, structural characterization and DFT calculation on a square-planar Ni(II) complex of a compartmental Schiff base ligand. <i>Journal of Molecular Structure</i> , 2016, 1125, 688-695.	1.8	3
38	Oxime Based Selective Fluorescent Sensor for Arsenate Ion in a Greener Way with Bio-Imaging Application. <i>Analytical Sciences</i> , 2016, 32, 1295-1300.	0.8	10
39	Hydrothermal synthesis of two supramolecular inorganic-organic hybrid phosphomolybdates based on Ni(II) and Co(II) ions: structural diversity and heterogeneous catalytic activities. <i>New Journal of Chemistry</i> , 2016, 40, 6931-6938.	1.4	10
40	Two new mononuclear cobalt(II) complexes of pyrazole-based ligands: synthesis, structures and magnetic studies. <i>Transition Metal Chemistry</i> , 2016, 41, 347-355.	0.7	3
41	Synthesis, structure, catalytic and magnetic properties of a pyrazole based five coordinated di-nuclear cobalt(II) complex. <i>Polyhedron</i> , 2016, 106, 84-91.	1.0	14
42	Synthesis, Crystal Structures, and Magnetic and Catalytic Studies on a Linear Trinuclear Mn ₃ Complex. <i>ChemPlusChem</i> , 2015, 80, 1440-1447.	1.3	3
43	Cu(II)-Dy(III) and Co(III)-Dy(III) based single molecule magnets with multiple slow magnetic relaxation processes in the Cu(II)-Dy(III) complex. <i>Dalton Transactions</i> , 2015, 44, 13242-13249.	1.6	41
44	Mononuclear manganese(III) complexes of bidentate NO donor Schiff base ligands: synthesis, structural characterization, magnetic and catecholase studies. <i>RSC Advances</i> , 2015, 5, 23855-23864.	1.7	19
45	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. <i>Inorganic Chemistry</i> , 2015, 54, 7030-7037.	1.9	9
46	Novel Cu ^{II} -M ^{II} -Cu ^{II} (M = Cu or Ni) trinuclear and [Ni ₂ Cu ₆] hexanuclear complexes assembled by bi-compartmental ligands: syntheses, structures, magnetic and catalytic studies. <i>Dalton Transactions</i> , 2015, 44, 9426-9438.	1.6	11
47	Two new twisted helical nickel(II) and cobalt(III) octahedral monomer complexes: Synthesis and structural characterization. <i>Journal of Chemical Sciences</i> , 2014, 126, 1647-1653.	0.7	3
48	Solvent-Dependent Oxime-Azide and Oxime-Nitrile Coupling: Crystallographic and Catalytic Studies. <i>ChemPlusChem</i> , 2014, 79, 1649-1656.	1.3	7
49	Water-Stable Manganese(IV) Complex of a N ₂ O ₄ -Donor Non-Schiff-Base Ligand: Synthesis, Structure, and Multifrequency High-Field Electron Paramagnetic Resonance Studies. <i>Inorganic Chemistry</i> , 2014, 53, 5423-5428.	1.9	15
50	A novel pyrene-2-(pyridin-2-ylmethylsulfanyl)ethylamine based turn-on dual sensor for Al ³⁺ : experimental and computational studies. <i>RSC Advances</i> , 2014, 4, 41784-41792.	1.7	9
51	Copper(II) induced oxidative modification and complexation of a schiff base ligand: synthesis, crystal structure, catalytic oxidation of aromatic hydrocarbons and DFT calculation. <i>RSC Advances</i> , 2014, 4, 34248-34256.	1.7	8
52	Synthesis of 2D polymeric dicyanamide bridged hexa-coordinated Cu(II) complex: Structural characterization, spectral studies and TDDFT calculation. <i>Journal of Molecular Structure</i> , 2014, 1075, 286-291.	1.8	9
53	Dinuclear Cu ^{II} -Cu ^{II} and Cu ^I -Cu ^{II} Complexes of a Compartmental Ligand - Syntheses, Structures, Magnetic, and Catalytic Studies. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4922-4930.	1.0	9
54	Rhodamine-Based Chromo-Fluorogenic Dual Signalling Probe for Selective Recognition of Hg ^{II} with Potential Applications for INHIBIT Logic Devices and Cell-Imaging Studies. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5854-5861.	1.0	26

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55	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
56	Diversity in supramolecular self-assembly through hydrogen-bonding interactions of non-coordinated aliphatic α -OH group in a series of heterodinuclear CuIIM (M=NaI, ZnII, HgII, SmIII, BiIII.) Tj ETQq0120 rgBT 42verlock 1	1.6	4
57	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
58	A novel thermally stable hydroperoxo α -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
59	A highly selective and sensitive in vivo fluorosensor for zinc(ii) without cytotoxicity. Organic and Biomolecular Chemistry, 2012, 10, 2380.	1.5	76
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	η^2 -Aromaticity in dinuclear copper(ii) complexes: Novel interaction between perchlorate anion and η^2 -aromatic [Cu2X2] (X = N or O) core. CrystEngComm, 2012, 14, 4972.	1.3	6
62	Fashionable Co-operative Sensing of Bivalent Zn2+ and Cd2+ in Attendance of OAc α by Use of Simple Sensor: Exploration of Molecular Logic Gate and Docking Studies. Journal of Fluorescence, 0, , .	1.3	1