

Tarak Nath Mandal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12020319/publications.pdf>

Version: 2024-02-01

22
papers

872
citations

516710

16
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1260
citing authors

#	ARTICLE	IF	CITATIONS
1	Sb ₂ Se ₃ sensitized Inorganic–Organic Heterojunction Solar Cells Fabricated Using a Single Source Precursor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1329-1333.	13.8	145
2	Efficient Inorganic–Organic Heterojunction Solar Cells Employing Sb ₂ (S _x /Se _{1-x}) ₃ Graded Composition Sensitizers. <i>Advanced Energy Materials</i> , 2014, 4, 1301680.	19.5	123
3	Ultrastable Luminescent Hybrid Bromide Perovskite@MOF Nanocomposites for the Degradation of Organic Pollutants in Water. <i>ACS Applied Nano Materials</i> , 2019, 2, 1333-1340.	5.0	102
4	Metal complexes of pyrimidine derived ligands – Syntheses, characterization and X-ray crystal structures of Ni(II), Co(III) and Fe(III) complexes of Schiff base ligands derived from S-methyl/S-benzyl dithiocarbamate and 2-S-methylmercapto-6-methylpyrimidine-4-carbaldehyde. <i>Polyhedron</i> , 2007, 26, 2603-2611.	2.2	70
5	Synthesis, characterization and magnetostructural correlation studies on three binuclear copper complexes of pyrimidine derived Schiff base ligands. <i>Polyhedron</i> , 2008, 27, 2519-2528.	2.2	46
6	An orthogonal ferromagnetically coupled tetracopper(ii) 2 Å–2 homoleptic grid supported by μ-O ₄ bridges and its DFT study. <i>Dalton Transactions</i> , 2007, , 1229-1234.	3.3	44
7	Synthesis and structural characterization of copper(II) and vanadium(V) complexes of pyridyl/pyrimidyl–pyrazole derived Schiff base ligands – Metal specific adjustment of ligand binding mode. <i>Polyhedron</i> , 2008, 27, 3267-3274.	2.2	39
8	Precursor-driven selective synthesis of hexagonal chalcocite (Cu ₂ S) nanocrystals: structural, optical, electrical and photocatalytic properties. <i>New Journal of Chemistry</i> , 2014, 38, 4774-4782.	2.8	38
9	Molybdenum(VI) complexes of a few pyrimidine derived ligands and the study of metal mediated CN bond cleavage resulting in ligand transformation during complex formation. <i>Polyhedron</i> , 2009, 28, 711-720.	2.2	30
10	A hybrid blue perovskite@metal–organic gel (MOG) nanocomposite: simultaneous improvement of luminescence and stability. <i>Chemical Science</i> , 2019, 10, 10524-10530.	7.4	30
11	Syntheses, characterization and X-ray crystal structures of Co(III) and Mn(II) complexes of pyrimidine derived Schiff base ligands. <i>Polyhedron</i> , 2008, 27, 593-601.	2.2	29
12	A pyrazole-based orthogonal ferromagnetically coupled [2 Å–2] homoleptic square Cu ₄ grid: Magnetostructural correlations. <i>Polyhedron</i> , 2008, 27, 105-112.	2.2	26
13	Ferro- and anti-ferromagnetically coupled tetracopper(II) 2 Å–2 homoleptic rectangular grids supported by both ¼-O and ¼-(N-N) bridges derived from a new pyrazole based polydentate Schiff base ligand – magneto-structural correlations and DFT calculation. <i>Dalton Transactions</i> , 2009, , 8215.	3.3	26
14	Unusual complexation of Cu(I) by pyrimidine/pyridine-pyrazole derived ligands exploiting the molecular function of 2-mercapto-4,6-dimethylpyrimidine – Syntheses, crystal structures and electrochemistry. <i>Inorganica Chimica Acta</i> , 2009, 362, 1315-1322.	2.4	22
15	Self assembled tetranuclear Cu ₄ (ii), Ni ₄ (ii) [2 Å–2] square grids and a dicopper(ii) complex of heterocycle based polytopic ligands - Magnetic studies. <i>Dalton Transactions</i> , 2011, 40, 11866.	3.3	20
16	Syntheses, characterization, and X-ray crystal structures of two cis-dioxovanadium(V) complexes of pyrazole-derived, Schiff-base ligands. <i>Journal of Coordination Chemistry</i> , 2010, 63, 2146-2157.	2.2	19
17	Syntheses, characterization, X-ray crystal structures and emission properties of copper(II), zinc(II) and cadmium(II) complexes of pyridyl–pyrazole derived Schiff base ligand – Metal selective ligand binding modes. <i>Polyhedron</i> , 2010, 29, 2892-2899.	2.2	15
18	Modulation of fluorescence emission of 1-(2-pyridyl) pyrazole derived Schiff base ligands by exploiting their metal ion sensitive binding modes. <i>Polyhedron</i> , 2009, 28, 3577-3585.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Synthesis and studies of rare acylhydrazine bridged strong antiferromagnetically coupled dicopper(II) and dioxovanadium(V) complexes of a pyridyl-pyrazole derived Schiff base ligand. <i>Polyhedron</i> , 2012, 46, 105-112.	2.2	12
20	Syntheses, characterization, X-ray crystal structures and emission properties of five oxovanadium(V) complexes with pyridyl/pyrimidyl-pyrazole derived ditopic ligands. <i>Polyhedron</i> , 2011, 30, 1595-1603.	2.2	11
21	Synthesis, characterization and spectrochemical studies on a few binuclear μ -oxo molybdenum(V) complexes of pyrimidine derived Schiff base ligands. <i>Journal of Chemical Sciences</i> , 2010, 122, 239-245.	1.5	6
22	A 1D Cu(II) coordination polymer exhibiting ferromagnetic interactions and a mononuclear Cu(II) complex of substituted pyrazole carboxylic acids: Synthesis, characterization and crystal structure. <i>Polyhedron</i> , 2011, 30, 1571-1578.	2.2	5