

# Tarak Nath Mandal

## List of Publications by Year in descending order

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22  
papers

872  
citations

516710

16  
h-index

677142

22  
g-index

22  
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22  
docs citations

22  
times ranked

1260  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Sb <sub>2</sub> Se <sub>3</sub> -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
4	Efficient Inorganic-Organic Heterojunction Solar Cells Employing Sb <sub>2</sub> (S <sub>x</sub> /Se <sub>1-x</sub> ) <sub>3</sub> Graded-Composition Sensitizers. <i>Advanced Energy Materials</i> , 2014, 4, 1301680.	19.5	123
5	Precursor-driven selective synthesis of hexagonal chalcocite (Cu <sub>2</sub> S) nanocrystals: structural, optical, electrical and photocatalytic properties. <i>New Journal of Chemistry</i> , 2014, 38, 4774-4782.	2.8	38
6	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
7	Self assembled tetranuclear Cu <sub>4</sub> (ii), Ni <sub>4</sub> (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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	A pyrazole-based orthogonal ferromagnetically coupled [2Å–2] homoleptic square Cu <sub>4</sub> grid: Magnetostructural correlations. <i>Polyhedron</i> , 2008, 27, 105-112.	2.2	26
18	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

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19	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
20	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
21	An orthogonal ferromagnetically coupled tetracopper(ii) 2 Å– 2 homoleptic grid supported by Åµ-O4bridges and its DFT study. <i>Dalton Transactions</i> , 2007, , 1229-1234.	3.3	44
22	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 dithiocarbazate and 2-S-methylmercapto-6-methylpyrimidine-4-carbaldehyde. <i>Polyhedron</i> , 2007, 26, 2603-2611.	2.2	70