

Sudipta Chatterjee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3962859/publications.pdf>

Version: 2024-02-01

53
papers

1,516
citations

331670

21
h-index

315739

38
g-index

54
all docs

54
docs citations

54
times ranked

1826
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular electrocatalysts for the oxygen reduction reaction. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	213
2	Electrocatalytic O ₂ -Reduction by Synthetic Cytochrome <i>c</i> Oxidase Mimics: Identification of a Bridging Peroxo Intermediate Involved in Facile 4e ⁺ /4H ⁺ O ₂ -Reduction. <i>Journal of the American Chemical Society</i> , 2015, 137, 12897-12905.	13.7	100
3	Factors Determining the Rate and Selectivity of 4e ⁺ /4H ⁺ Electrocatalytic Reduction of Dioxygen by Iron Porphyrin Complexes. <i>Accounts of Chemical Research</i> , 2017, 50, 1744-1753.	15.6	89
4	Three new pseudohalide bridged dinuclear Zn(II), Cd(II) complexes of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies. <i>Polyhedron</i> , 2012, 33, 82-89.	2.2	65
5	Concerted Proton-Electron Transfer in Electrocatalytic O ₂ Reduction by Iron Porphyrin Complexes: Axial Ligands Tuning H/D Isotope Effect. <i>Inorganic Chemistry</i> , 2015, 54, 2383-2392.	4.0	62
6	Synthesis, crystal structure, spectroscopic and photoluminescence studies of manganese(II), cobalt(II), cadmium(II), zinc(II) and copper(II) complexes with a pyrazole derived Schiff base ligand. <i>Polyhedron</i> , 2011, 30, 2801-2808.	2.2	54
7	Importance of π -Interactions Involving Chelate Rings in Addition to the Tetrel Bonds in Crystal Engineering: A Combined Experimental and Theoretical Study on a Series of Hemi- and Holodirected Nickel(II)/Lead(II) Complexes. <i>Crystal Growth and Design</i> , 2019, 19, 5869-5881.	3.0	53
8	Catalytic H ₂ O ₂ Disproportionation and Electrocatalytic O ₂ Reduction by a Functional Mimic of Heme Catalase: Direct Observation of Compound 0 and Compound I in Situ. <i>ACS Catalysis</i> , 2016, 6, 1382-1388.	11.2	52
9	Electrocatalytic O ₂ Reduction Reaction by Synthetic Analogues of Cytochrome P450 and Myoglobin: In-Situ Resonance Raman and Dynamic Electrochemistry Investigations. <i>Inorganic Chemistry</i> , 2013, 52, 9897-9907.	4.0	50
10	Unique example of a trigonal dodecahedral Na ⁺ in a compartmental Schiff base N,N ⁺ -(1,2-Phenylene)-bis(3-methoxysalicylideneimine). <i>Inorganic Chemistry Communication</i> , 2011, 14, 1337-1340.	3.9	49
11	Syntheses, characterization and X-ray crystal structures of hexa-coordinated monomeric and oxo-bridged dimeric Fe(III) compounds with salen-type Schiff bases. <i>Polyhedron</i> , 2012, 48, 189-198.	2.2	47
12	<i>In Situ</i> Mechanistic Investigation of O ₂ Reduction by Iron Porphyrin Electrocatalysts Using Surface-Enhanced Resonance Raman Spectroscopy Coupled to Rotating Disk Electrode (SERRS-RDE) Setup. <i>ACS Catalysis</i> , 2016, 6, 6838-6852.	11.2	45
13	Singlet Diradical Complexes of Chromium, Molybdenum, and Tungsten with Azo Anion Radical Ligands from M(CO) ₆ Precursors. <i>Inorganic Chemistry</i> , 2007, 46, 8584-8593.	4.0	44
14	Formation of bis($\frac{1}{4}$ -tetrazolato)dinickel(μ) complexes with N,N,O-donor Schiff bases via in situ 1,3-dipolar cyclo-additions: isolation of a novel bi-cyclic trinuclear nickel(μ) μ -sodium(μ) μ -nickel(μ) complex. <i>Dalton Transactions</i> , 2014, 43, 2936-2947.	3.3	41
15	Heterometallic inorganic-organic frameworks of sodium-nickel(vanen): Cation- π interaction, trigonal dodecahedral Na ⁺ and unprecedented heptadentate coordination mode of vanen ²⁺ . <i>Polyhedron</i> , 2013, 63, 214-221.	2.2	39
16	Synthesis and characterization of two new nickel(II) complexes with azide: Formation of a two-dimensional coordination polymer with 63-hcb topology. <i>Polyhedron</i> , 2014, 68, 205-211.	2.2	37
17	Heterometallic Cu ^{II} -Dy ^{III} Clusters of Different Nuclearities with Slow Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2016, 55, 691-699.	4.0	37
18	Two Zinc(II)-Based Metal Complexes of New Pyrimidine Derived Ligand: Anion-Dependent Structural Variations and Charge Transport Property Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8724-8734.	3.1	30

#	ARTICLE	IF	CITATIONS
19	A new trinuclear zinc(II) complex and a heptacoordinated mononuclear cadmium(II) complex with a pyrimidine derived Schiff base ligand: Syntheses, crystal structures, photoluminescence and DFT calculations. <i>Journal of Molecular Structure</i> , 2013, 1048, 98-107.	3.6	28
20	Ammonium Tetrathiomolybdate: A Versatile Catalyst for Hydrogen Evolution Reaction from Water under Ambient and Hostile Conditions. <i>Inorganic Chemistry</i> , 2013, 52, 14168-14177.	4.0	26
21	Syntheses, crystal structures, spectral studies, and DFT calculations of two new square planar Ni(II) complexes derived from pyridoxal-based Schiff base ligands. <i>Journal of Coordination Chemistry</i> , 2014, 67, 699-713.	2.2	26
22	Effect of metal exchange (Os vs. Ru) and co-ligand variation (Cl ⁻ vs. acac ⁻) on the oxidation state distribution in complexes of an o-phenylenediamido(2 ⁻)/o-quinonediimine redox system. <i>Dalton Transactions</i> , 2009, , 7778.	3.3	20
23	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
24	Second sphere control of spin state: Differential tuning of axial ligand bonds in ferric porphyrin complexes by hydrogen bonding. <i>Journal of Inorganic Biochemistry</i> , 2016, 155, 82-91.	3.5	20
25	Syntheses, crystallographic characterization, catecholase activity and magnetic properties of three novel aqua bridged dinuclear nickel(II) complexes. <i>Inorganica Chimica Acta</i> , 2014, 416, 122-134.	2.4	18
26	Syntheses, crystal structure, spectroscopic and photoluminescence studies of mononuclear copper(II), manganese(II), cadmium(II), and a 1D polymeric Cu(II) complexes with a pyrimidine derived Schiff base ligand. <i>Journal of Molecular Structure</i> , 2014, 1058, 213-220.	3.6	17
27	An acetate bridged centrosymmetric zinc(II) complex with a tetradentate reduced Schiff base ligand: Synthesis, characterization and ability to sense nitroaromatics by turn off fluorescence response. <i>Polyhedron</i> , 2020, 190, 114735.	2.2	16
28	Dicopper(II) complexes of a tridentate pyrimidine derived Schiff base ligand: Syntheses, crystal structures and catalytic reactions. <i>Polyhedron</i> , 2012, 46, 74-80.	2.2	14
29	Five new pseudohalide bridged Mn(II) complexes of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and magnetic properties. <i>Polyhedron</i> , 2014, 68, 212-221.	2.2	14
30	Syntheses, crystal structures, spectral study and DFT calculation of three new copper(II) complexes derived from pyridoxal hydrochloride, N,N-dimethylethylenediamine and N,N-diethylethylenediamine. <i>Journal of Molecular Structure</i> , 2015, 1088, 38-49.	3.6	14
31	Functional adlayers on Au electrodes: some recent applications in hydrogen evolution and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1323-1339.	10.3	14
32	Bis(acetonitrile)bis(acetylacetonato)ruthenium(iii) mediated chemical transformations of coordinated 2-methylthioanilide. <i>Dalton Transactions</i> , 2012, 41, 7057.	3.3	13
33	Three new 1D Cu(II) coordination polymers and a binuclear Cu(II) complex of two pyrazole derived Schiff base ligands: Heterocyclic ring substitution and anion dependent structural variations & Spectral studies. <i>Inorganica Chimica Acta</i> , 2013, 395, 1-10.	2.4	13
34	Ammonium tetrathiomolybdate as a novel electrode material for convenient tuning of the kinetics of electrochemical O ₂ reduction by using iron porphyrin catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6819-6823.	10.3	13
35	Homo and heterometallic rhomb-like Ni ₄ and Mn ₂ Ni ₂ complexes. <i>Polyhedron</i> , 2014, 70, 155-163.	2.2	12
36	Complexes of a functionally modified pyrazole derived ligand & Mononuclear zinc(II), dinuclear nickel(II) and a rare pentanuclear cadmium(II) complex with a TBP core and their photoluminescence studies. <i>Polyhedron</i> , 2012, 47, 143-150.	2.2	10

#	ARTICLE	IF	CITATIONS
37	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. <i>Journal of Molecular Structure</i> , 2019, 1178, 682-691.	3.6	10
38	Diminishing accessibility of electrophilic nickel(Ni^{II}) centres due to incorporation of a methylene spacer in the pendant side arm of a series of heterotrinnuclear nickel(Ni^{II})/sodium complexes: a DFT study using a homodesmotic equation. <i>CrystEngComm</i> , 2020, 22, 2970-2977.	2.6	10
39	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.	3.6	9
40	ortho-Caromâ€N bond fusion in aniline associated with electrophilic chlorination reactions at ruthenium(III) coordinated acetylacetonates. <i>Inorganica Chimica Acta</i> , 2011, 374, 366-372.	2.4	8
41	Synthesis, structural, magnetic, DFT calculations and CShM studies of three new pentanuclear Mn(ii) clusters. <i>Dalton Transactions</i> , 2012, 41, 413-423.	3.3	8
42	Slow Magnetic Relaxation in a Co ₂ Dy Trimer and a Co ₂ Dy ₂ Tetramer. <i>Chemistry - an Asian Journal</i> , 2021, 16, 666-677.	3.3	8
43	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
44	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.	3.6	7
45	Synthesis, crystal structures and theoretical studies of dinuclear Mn(II) and Ni(II) complexes of phenol-based C_{60} -compartmental ligand. <i>Journal of Molecular Structure</i> , 2015, 1100, 318-327.	3.6	5
46	Syntheses, X-ray crystal structures and spectroscopic characterization of rare M^{IV} -di- f pyrazole based bridging keto carbonyl complexes derived from Cd(II) salts. <i>Polyhedron</i> , 2015, 85, 172-180.	2.2	5
47	Metal Binding to $\text{A}\beta^2$ Peptides Inhibits Interaction with Cytochrome <i>c</i> : Insights from Abiological Constructs. <i>ACS Omega</i> , 2018, 3, 13994-14003.	3.5	5
48	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.	3.6	5
49	Isolation of a Manganese Complex of a Tridentate Azoaromatic Ligand from an Unusual Mn ₂ (CO) ₁₀ Promoted Simultaneous Reductive Azo Cleavage and Aromatic Ring Amination Reactions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 1775-1777.	1.2	3
50	An intramolecular antiferromagnetically coupled pentanuclear homoleptic Mn(II) cluster: Synthesis, crystal structure, spectral and magnetic property. <i>Polyhedron</i> , 2013, 53, 235-239.	2.2	3
51	Synthesis and characterization of a manganese(III) schiff base complex and exploration of Br \cdot -Br interaction in the solid state structure of the complex. <i>Journal of Coordination Chemistry</i> , 2019, 72, 3237-3247.	2.2	3
52	Multicenter Bonding and the Electron Deficient Molecules with Special Emphasis to Boron and Aluminium Compounds. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 1116-1121.	0.6	2
53	Solvatochromism of a Novel Ruthenium Complex, [Ru(acac) ₂ (N-(2-Methylsulfonylphenyl)formamido)]: A Correlation between the Electronic Structure and Spectroscopic Properties. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 789-799.	0.6	0