Apurba K Patra

List of Publications by Year
in descending order

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35	1,267	331259	360668
papers	citations	21 h-index	35 g-index

36	36	36	1146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photolabile Ruthenium Nitrosyls with Planar Dicarboxamide Tetradentate N4Ligands:Â Effects of In-Plane and Axial Ligand Strength on NO Release. Inorganic Chemistry, 2004, 43, 4487-4495.	1.9	117
2	A Ruthenium Nitrosyl That Rapidly Delivers NO to Proteins in Aqueous Solution upon Short Exposure to UV Light. Inorganic Chemistry, 2003, 42, 7363-7365.	1.9	107
3	The First Non-Heme Iron(III) Complex with a Ligated Carboxamido Group That Exhibits Photolability of a Bound NO Ligand. Angewandte Chemie - International Edition, 2002, 41, 2512-2515.	7.2	102
4	Iron Nitrosyls of a Pentadentate Ligand Containing a Single Carboxamide Group:Â Syntheses, Structures, Electronic Properties, and Photolability of NO. Inorganic Chemistry, 2003, 42, 6812-6823.	1.9	94
5	Cu(II) complexes with square pyramidal (N2S)CuCl2 chromophore: Jahnâ€“Teller distortion and subsequent effect on spectral and structural properties. Inorganica Chimica Acta, 2011, 370, 247-253.	1.2	71
6	Evaluating corrosion inhibition property of some Schiff bases for mild steel in 1 M HCl: competitive effect of the heteroatom and stereochemical conformation of the molecule. RSC Advances, 2016, 6, 74833-74844.	1.7	65
7	Ruthenium Nitrosyls Derived from Polypyridine Ligands with Carboxamide or Imine Nitrogen Donor(s):Â Isoelectronic Complexes with Different NO Photolability. Inorganic Chemistry, 2007, 46, 2328-2338.	1.9	63
8	First {Feâ¯NO}6Complex with an N2S3Feâ¯NO Core as a Model of NO-Inactivated Iron-Containing Nitrile Hydratase. Are Thiolates and Thioethers Equivalent Donors in Low-Spin Iron Complexes?. Inorganic Chemistry, 2002, 41, 1039-1041.	1.9	47
9	Biological Activity of Designed Photolabile Metal Nitrosyls:Â Light-Dependent Activation of Soluble Guanylate Cyclase and Vasorelaxant Properties in Rat Aorta. Journal of Medicinal Chemistry, 2006, 49, 7325-7330.	2.9	46
10	Syntheses, Structures, and Reactivities of {Feâ¯NO}6Nitrosyls Derived from Polypyridine-Carboxamide Ligands:Â Photoactive NO-Donors and Reagents for S-Nitrosylation of Alkyl Thiols. Inorganic Chemistry, 2004, 43, 5736-5743.	1.9	45
11	Spontaneous Reduction of a Low-Spin Fe(III) Complex of a Neutral Pentadentate N5Schiff Base Ligand to the Corresponding Fe(II) Species in Acetonitrile. Inorganic Chemistry, 2002, 41, 5403-5409.	1.9	43
12	Synthesis and Characterization of N2S3Xâ¯Fe Models of Iron-Containing Nitrile Hydratase. Inorganic Chemistry, 2003, 42, 4382-4388.	1.9	43
13	Reactions of Nitric Oxide with a Low-Spin Fe(III) Center Ligated to a Tetradentate Dicarboxamide N4 Ligand:â€‰ Parallels between Heme and Non-heme Systems. Journal of the American Chemical Society, 2004, 126, 4780-4781.	6.6	41
14	Thermally Induced Stoichiometric and Catalytic O-Atom Transfer by a Non-Heme Iron(III)â€“Nitro Complex: First Example of Reversible{Feâ€“NO}7â†”FeIII-NO2 Transformation in the Presence of Dioxygen. Angewandte Chemie - International Edition, 2003, 42, 4517-4521.	7.2	40
15	Magnetoâ€“structural studies of monohydroxo-bridged dicopper(II) complexes M[Cu2L2(OH)]Â·2H2O (M=Na+ (1) and K+ (2); H2L=2,6-bis[N-(phenyl)carbamoyl]pyridine). Effect of Cuî—¸OHî—¸Cu bridge angle on antiferromagnetic coupling. Polyhedron, 2000, 19, 1423-1428.	1.0	39
16	Copper Complexes Relevant to the Catalytic Cycle of Copper Nitrite Reductase: Electrochemical Detection of NO(g) Evolution and Flipping of NO₂ Binding Mode upon Cu^{II}â€‰â†’ Cu^I Reduction. Inorganic Chemistry, 2013, 52, 11084-11095.	1.9	35
17	Shuttling of Nickel Oxidation States in N₄S₂ Coordination Geometry versus Donor Strength of Tridentate N₂S Donor Ligands. Inorganic Chemistry, 2012, 51, 7625-7635.	1.9	33
18	Electronic Structure of Mononuclear Bis(1,2-diaryl-1,2-ethylenedithiolato)iron Complexes Containing a Fifth Cyanide or Phosphite Ligand:â€‰ A Combined Experimental and Computational Study. Inorganic Chemistry, 2006, 45, 7877-7890.	1.9	31

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19	Light-induced inhibition of papain by a {Mnâ€“NO}6 nitrosyl: Identification of papainâ€“SNO adduct by mass spectrometry. Journal of Inorganic Biochemistry, 2005, 99, 1458-1464.	1.5	30
20	Dinuclear Bis(1,2-diaryl-1,2-ethylenedithiolato)iron Complexes:Â [FeIII2(L)4]n(n= 2â^', 1â^', 0, 1+). Inorganic Chemistry, 2006, 45, 6541-6548.	1.9	29
21	Hexacoordinate Nickel(II)/(III) Complexes that Mimic the Catalytic Cycle of Nickel Superoxide Dismutase. Angewandte Chemie - International Edition, 2014, 53, 10184-10189.	7.2	26
22	A Copper(II) Nitrite That Exhibits Change of Nitrite Binding Mode and Formation of Copper(II) Nitrosyl Prior to Nitric Oxide Evolution. Inorganic Chemistry, 2018, 57, 1550-1561.	1.9	19
23	First structural example of a metal uncoordinated mesoionic imidazo[1,5-a]pyridine and its precursor intermediate copper complex: an insight to the catalytic cycle. Dalton Transactions, 2011, 40, 12866.	1.6	18
24	Synthesis, Structure, and Properties of an Fe(II) Carbonyl [(PaPy3)Fe(CO)](ClO4):Â Insight into the Reactivity of Fe(II)â^'CO and Fe(II)â^'NO Moieties in Non-Heme Iron Chelates of N-Donor Ligands. Inorganic Chemistry, 2006, 45, 3774-3781.	1.9	14
25	Mixed valence copperâ€“sulfur clusters of highest nuclearity: a Cu₈ wheel and a Cu₁₆ nanoball. Chemical Communications, 2017, 53, 3334-3337.	2.2	12
26	Model Complexes for the Ni_p Site of Acetyl Coenzyme A Synthase/Carbon Monoxide (CO) Dehydrogenase: Structure, Electrochemistry, and CO Reactivity. Inorganic Chemistry, 2018, 57, 13713-13727.	1.9	9
27	Efficient removal of Hg2+, Cd2+ and Pb2+ from aqueous solution and mixed industrial wastewater using a designed chelating ligand, 2-pyridyl-N-(2â€²-methylthiophenyl) methyleneimine (PMTPM). Water Science and Technology, 2019, 79, 1092-1101.	1.2	9
28	Structural and spectroscopic evidence for linkage isomerism of bound nitrite in a {Feâ€“NO}6 nitrosyl derived from a tetradentate dicarboxamide ligand: More parallels between heme and non-heme systems. Inorganica Chimica Acta, 2010, 363, 2715-2719.	1.2	7
29	Electron transfer mechanism of catalytic superoxide dismutation via Cu(<scp>ii</scp>/<scp>i</scp>) complexes: evidence of cupricâ€“superoxo/â€“hydroperoxo species. Dalton Transactions, 2016, 45, 11898-11910.	1.6	7
30	Nickel(II)â€Mediated Reversible Thiolate/Disulfide Conversion as a Mimic for a Key Step of the Catalytic Cycle of Methylâ€Coenzymeâ€…M Reductase. Angewandte Chemie - International Edition, 2020, 59, 9177-9185.	7.2	7
31	Copper coordinated ligand thioether-S and NO₂^{â^'} oxidation: relevance to the Cu_M site of hydroxylases. Dalton Transactions, 2015, 44, 17587-17599.	1.6	5
32	Hexacoordinate Nickel(II)/(III) Complexes that Mimic the Catalytic Cycle of Nickel Superoxide Dismutase. Angewandte Chemie, 2014, 126, 10348-10353.	1.6	4
33	Reactivity of Nitric Oxide and Nitrosonium Ion with Copper(II/I) Schiff Base Complexes: Mechanistic Aspects of Imine Câ•N Bond Cleavage and Oxidation of Pyridine-2-aldehyde to Pyridine-2-carboxylic Acid. Inorganic Chemistry, 2022, 61, 6421-6437.	1.9	3
34	Bis(Î¼-thiolato)-dicopper Containing Fully Spin Delocalized Mixed Valence Copperâ€“Sulfur Clusters and Their Electronic Structural Properties with Relevance to the Cu_A Site. Inorganic Chemistry, 2021, 60, 5779-5790.	1.9	2
35	Nickel(II)â€Mediated Reversible Thiolate/Disulfide Conversion as a Mimic for a Key Step of the Catalytic Cycle of Methylâ€Coenzymeâ€…M Reductase. Angewandte Chemie, 2020, 132, 9262-9270.	1.6	0