

# Sumanta Kumar Padhi

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The sporadic $\pi$ -pyridine bridge in transition metal complexes: A real bond or an interaction?. <i>Coordination Chemistry Reviews</i> , 2022, 450, 214238.	9.5	4
2	Electrocatalytic proton reduction by dinuclear cobalt complexes in a nonaqueous electrolyte. <i>New Journal of Chemistry</i> , 2022, 46, 6027-6038.	1.4	8
3	Electrocatalytic $\text{CO}_2$ Reduction to Syngas and HCOOH by Homogeneous $\text{Fc}^{\text{NAP}}$ . <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	3
4	Catalytic Water Oxidation by a Ru II Half Sandwich Complex. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3499-3505.	1.0	5
5	Dehydrogenation of Formic Acid by a Ru <sup>II</sup> Half Sandwich Catalyst. <i>ChemistrySelect</i> , 2021, 6, 9447-9452.	0.7	4
6	Electrocatalytic hydrogen evolution by molecular Cu(II) catalysts. <i>Polyhedron</i> , 2021, 208, 115425.	1.0	7
7	Effectual electrocatalytic proton and water reduction by CuII terpyridine scaffolds. <i>Electrochimica Acta</i> , 2020, 364, 137277.	2.6	6
8	Redox-Induced Structural Switching through Sporadic Pyridine-Bridged $\text{Co}^{\text{II}}$ Dimer and Electrocatalytic Proton Reduction. <i>Inorganic Chemistry</i> , 2020, 59, 7810-7821.	1.9	19
9	A flexible homoleptic pentadentate Cu(II) molecular catalyst for effective proton and water reduction. <i>Electrochimica Acta</i> , 2020, 354, 136614.	2.6	6
10	Kinetics and mechanistic study of electrocatalytic hydrogen evolution by $[\text{Co}(\text{Fc-tpy})_2]^{2+}$ . <i>Polyhedron</i> , 2020, 187, 114677.	1.0	10
11	Kinetics and the potential well in electrochemical hydrogen evolution by $[\text{Co}(4\text{-tolyl-tpy})_2]^{2+}$ . <i>Electrochimica Acta</i> , 2020, 340, 136000.	2.6	14
12	Catalytic water oxidation by a single site $[\text{Ru}(\text{Fc-tpy})(\text{bpy})\text{OH}_2]^{2+}$ complex and its mechanistic study. <i>Inorganica Chimica Acta</i> , 2020, 504, 119444.	1.2	3
13	Synthesis, Characterization, and Structure of Quinoline-based Benzimidazole Derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 988-997.	1.4	8
14	Ligand dechelation effect on a $[\text{Co}(\text{tpy})_2]^{2+}$ scaffold towards electro-catalytic proton and water reduction. <i>New Journal of Chemistry</i> , 2019, 43, 3856-3865.	1.4	12
15	Proton reduction by a Ni(II) catalyst and foot-of-the wave analysis for H <sub>2</sub> evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16467-16477.	3.8	23
16	Electrocatalytic proton and water reduction by a Co(III) polypyridyl complex. <i>Polyhedron</i> , 2019, 159, 127-134.	1.0	10
17	Fabrication of a Hierarchical $\text{TiO}_2$ Microsphere/Carbon Dots Photocatalyst for Oxygen Evolution and Dye Degradation Under Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 1057-1065.	0.9	3
18	Electronic Effect on Catalytic Water Oxidation by Single Site $[\text{Ru}(\text{QCl}^{\text{tpy}})(\text{bpy})(\text{OH})_2]^{2+}$ Catalyst. <i>ChemistrySelect</i> , 2017, 2, 123-129.	0.7	8

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19	Competent Electrocatalytic and Photocatalytic Proton Reduction by a Dechelated [Co(tpy) <sub>2</sub> ] <sup>2+</sup> Scaffold. European Journal of Inorganic Chemistry, 2017, 2017, 3409-3418.	1.0	18
20	Effect of Quinoline Substitution on Water Oxidation by [Ru(Ql-tpy)(bpy)(OH) <sub>2</sub> ] <sup>2+</sup> Scaffolds. European Journal of Inorganic Chemistry, 2017, 2017, 160-171.	1.0	12
21	1/4-Pyridine-bridged copper complex with robust proton-reducing ability. Dalton Transactions, 2017, 46, 14869-14879.	1.6	23
22	Effect of Pyridyl Substitution on Chemical and Photochemical Water Oxidation by [Ru(terpyridine)(bipyridine)(OH) <sub>2</sub> ] <sup>2+</sup> Scaffolds. European Journal of Inorganic Chemistry, 2017, 2017, 160-171.	1.0	12
23	Proton reduction by a nickel complex with an internal quinoline moiety for proton relay. Physical Chemistry Chemical Physics, 2016, 18, 21640-21650.	1.3	22
24	[Ru <sup>V</sup> (NCN-Me)(bpy)(iEO)] <sup>3+</sup> mediated efficient photo-driven water oxidation. RSC Advances, 2016, 6, 61959-61965.	1.7	10
25	[Ru <sup>V</sup> (NCN-Me)(bpy)(iEO)] <sup>3+</sup> Mediates efficient C-H bond oxidation from NADH analogs in aqueous media rather than water oxidation. Dalton Transactions, 2015, 44, 920-923.	1.6	12
26	Comparative Study of C <sup>∞</sup> N and N <sup>∞</sup> C Type Cyclometalated Ruthenium Complexes with a NAD <sup>+</sup> /NADH Function. Inorganic Chemistry, 2012, 51, 8091-8102.	1.9	13
27	Photoisomerization and Proton-Coupled Electron Transfer (PCET) Promoted Water Oxidation by Mononuclear Cyclometalated Ruthenium Catalysts. Inorganic Chemistry, 2012, 51, 5386-5392.	1.9	38
28	Proton-Induced Dynamic Equilibrium between Cyclometalated Ruthenium rNHC (Remote) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td 2011, 50, 5321-5323.	1.9	18
29	Photo- and Electrochemical Redox Behavior of Cyclometalated Ru(II) Complexes Having a 3-Phenylbenzo[1,6]naphthyridine Ligand. Inorganic Chemistry, 2011, 50, 10718-10723.	1.9	18
30	Syntheses and structures of cobalt(III) alcoholate complexes formed by addition of a water molecule across 2-pyridyl substituted imine function. Inorganica Chimica Acta, 2011, 367, 57-63.	1.2	10
31	Protonated 4-(2-pyridyl)-2,2,6,6-terpyridine and its Fe(II) bischelates: Syntheses and molecular structures. Inorganica Chimica Acta, 2011, 372, 383-388.	1.2	7
32	Water-chloride 2D-network in 4-(2-pyridyl)-2,2,6,6-terpyridine bis-chelates of M(II) {M=Fe, Ni, Ru}. Polyhedron, 2010, 29, 709-714.	1.0	8
33	Conversion of 2-(aminomethyl) substituted pyridine and quinoline to their dicarbonyldiimides using copper(II) acetate. Inorganica Chimica Acta, 2010, 363, 1448-1454.	1.2	28
34	Synthesis, structure, thermal studies on Zn(II), Cd(II) complexes of N-(2-pyridylmethyl)pyridine-2-carbaldimine and N-(2-pyridylmethyl)pyridine-2-methylketimine. Polyhedron, 2008, 27, 805-811.	1.0	12
35	Synthesis, structure, optical and magnetic properties of [CrL(X)3], {L=4-(2-pyridyl)-2,2,6,6-terpyridine; X=Cl <sup>-</sup> , N3 <sup>-</sup> , NCS <sup>-</sup> }. Polyhedron, 2008, 27, 1714-1720.	1.0	22
36	Ni(II) complexes of 4-(2-pyridyl)-2,2,6,6-terpyridine: Structure of mono- and bis-chelates containing anion-π interactions. Polyhedron, 2008, 27, 2221-2225.	1.0	12

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37	Co(II/III) coordinated pyridine alcoholate ligand generated through metal assisted nucleophilic addition to a CO function: Temperature dependent synthesis of a mononuclear complex and a neutral cubane cluster. <i>Polyhedron</i> , 2008, 27, 2662-2666.	1.0	13
38	Synthesis, structure and properties of $[ML(NO_3)_2]$ : M=Co, Ni, Cu; L=N-(2-pyridylethyl)pyridine-2-carbaldimine. <i>Polyhedron</i> , 2007, 26, 1619-1624.	1.0	14
39	Synthesis, spectral, and structural investigation of $[ML(NO_3)_2]$ : M=Co, Ni, Cu; L=N-(2-pyridylethyl)pyridine-2-methylketimine. <i>Polyhedron</i> , 2007, 26, 3092-3096.	1.0	8
40	Cu(NO <sub>3</sub> ) <sub>2</sub> ·3H <sub>2</sub> O-Mediated Synthesis of 4-(2-Pyridyl)-2,2,6,6-tetramethyl-1,2,3,4-tetrahydropyridine (L2) from N-(2-Pyridylmethyl)pyridine-2-methylketimine (L1). A C-C Bond-Forming Reaction and the Structure of $\{[Cu(L_2)(OH)(NO_3)][Cu(L_2)(NO_3)_2]\} \cdot 2H_2O$ . <i>Inorganic Chemistry</i> , 2006, 45, 7994-7996.	1.9	42
41	Solid-state kinetics of thermal release of pyridine and morphological study of $[Ni(ampy)_2(NO_3)_2]$ ; ampy=2-picolyamine. <i>Thermochimica Acta</i> , 2006, 448, 1-6.	1.2	16
42	Water Oxidation by a Neoteric Dinuclear Mn(II) Electrocatalyst in Aqueous Medium. <i>European Journal of Inorganic Chemistry</i> , 0, , .	1.0	1