

CURRICULUM VITAE



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➤ **Area of Teaching:**

- i) **UG Level:** Periodicity of Elements, Chemical Bonding, Atomic Structure, Redox Reactions, Coordination Chemistry, Magneto Chemistry, Bioinorganic Chemistry, Group-13,14,15,16,17 and 18.
- ii) **PG Level:** M-M multiple Bond, Clustures, Bioinorganic Chemistry, d and f-block elements, Organometallic Chemistry, Inorganic Polymers, Environment Chemistry.

➤ **List of research papers published in National/ International journals:**

- i) Synthesis and characterization of Cu (II), Cd(II) and Pb(II) complexes with tridentate N,S,O- donor schiff base: Interaction with human serum albumin(HSA) with Cu(II) complex, S. Maiti, A. Pandey, **A.Patra**, International Journal of Current Research, 9(4), 49202-49206, **2017**.
- ii) Manganese (II) Coordination Polymer Having Pyrazine And μ -Phenolato Bridging: Structure, Magnetism and Biological Studies, S K dey, M. Hazra, L K Thompson, **A. Patra**, Inorganica Chimica Acta, **2016**.
- iii) Synthesis and characterization of copper (II) complex with Pyrrolidine dithiocarbamate: interaction with bovine serum albumin, DFT computation and antibacterial activity, Sk I. Islam, S. B. Das, S. Mahata, S. K. Giri, **A. Patra**, International Journal of Advanced Science and Research, 1, 13-18, **2016**.

- iv)** Synthesis, Characterization, and Biological Activity of Nickel (II) and Palladium (II) Complex with Pyrrolidine Dithiocarbamate (PDTC), Sk I. Islam, S. B. Das, S. Chakrabarty, S. Hazra, A. Pandey, **A. Patra**, Advanced Research, **2016**.
- v)** Nickel (II) complexes of N₂S₂ donor set ligand and halide/pseudohalides: Synthesis, crystal structure, DNA and bovine/human serum albumin interaction, **A. Patra**, B. Mondal, B. Sen, E Zangrando, P Chattopadhyay, Journal of Chemical Sciences, 127, 1883-1893, **2015**.
- vi)** Synthesis of biologically active cadmium (II) complex with tridentate N₂ O donor Schiff Base: DFT study, binding mechanism of serum albumins (bovine, human) and fluorescent nanowires, M Hazra, T Dolai, SK Giri, **A Patra**, SK Dey; Journal of Saudi Chemical Society, **2014**.
- vii)** Synthesis and Characterisation of Copper (II) Complexes with Tridentate NNO Functionalized Ligand: Density Function Theory Study, DNA Binding Mechanism, Optical Properties, and Biological Application. M Hazra, T Dolai, A Pandey, SK Dey, **A Patra**, Bioinorganic chemistry and applications, **2014**.
- viii)** Cyclometalated rhodium (III) complexes bearing dithiocarbamate derivative: Synthesis, characterization, interaction with DNA and biological study, T Mukherjee, B Sen, **A Patra**, S Banerjee, G Hundal, P Chattopadhyay, Polyhedron, 69, 127-134, **2014**.
- ix)** Fluorescent copper (II) complexes: The electron transfer mechanism, interaction with bovine serum albumin (BSA) and antibacterial activity, Madhumita Hazra, Tanushree Dolai, Akhil Pandey, Subrata Kumar Dey, **A. Patra**, Journal of Saudi Chemical Society, **2014**, doi.org/10.1016/j.jscs.2014.02.009
- x)** Electrochemical Study of Hexa Coordinated Ni (II) and Co (II) Complexes with N₂ O-Donor Sets: Synthesis, Characterization, Interaction with Calf Thymus-DNA and Antibacterial Activity, M Hazra, T Dolai, A Pandey, SK Dey, **A Patra**, Advanced Electrochemistry 1 (2), 111-117, **2013**.

- xi)** Nickel (II) complexes with 2-(pyridin-3-ylmethylsulfanyl) phenylamine and halide/pseudohalides: Synthesis, structural characterisation, interaction with CT-DNA and bovine serum albumin, and antibacterial activity, **A Patra**, B Sen, S Sarkar, A Pandey, E Zangrando, P Chattopadhyay, *Polyhedron* 51, 156-163, **2013**.
- xii)** Synthesis and Characterization of Four Coordinated Palladium (II) Complex with N2O Donor Schiff Base: Interaction with Calf Thymus-DNA, Density Functional Theory Study and Antibacterial Activity, M Hazra, T Dolai, A Pandey, SK Dey, **A Patra**, *Journal of Chemical and Biological Interfaces* 1 (2), 100-107, **2013**.
- xiii)** Syntheses, crystal structures, and DNA-binding of some nickel (II) complexes of 1, 3-bis (2-pyridylmethylthio) propane and pseudohalides, **A Patra**, S Sen, S Sarkar, E Zangrando, P Chattopadhyay, *Journal of Coordination Chemistry* 65 (23), 4096-4107, **2012**.
- xiv)** Zinc (II) complexes of 1, 3-bis (2-pyridylmethylthio) propane: Anion dependency, crystal structure and DNA binding study, **A Patra**, S Sarkar, T Mukherjee, E Zangrando, P Chattopadhyay, *Polyhedron* 30 (17), 2783-2789, **2011**.
- xv)** Coordination behavior of symmetrical hexadentate O₂N₂S₂-donor Schiff bases toward zinc (II): synthesis, characterization, and crystal structure, **A Patra**, S Sarkar, R Chakraborty, MGB Drew, P Chattopadhyay, *Journal of Coordination Chemistry* 63 (11), 1913-1920, **2010**.
- xvi)** Copper(II) complexes of tetradentate N₂S₂ donor sets: synthesis, characterization crystal structure and reactivity, S. Sarkar, **A. Patra**, M.G.B. Drew, E. Zangrando, P. Chattopadhyay, *Polyhedron*, 28, 1-6, **2009**.
- xvii)** Iron(II), cobalt(II) and nickel(II) complexes of 1, 3-bis (2-pyridylmethylthio) propane: synthesis, characterization and crystal structure, **A. Patra**, S. Sarkar, M.G.B. Drew, E. Zangrando and P. Chattopadhyay, *Polyhedron*, 28, 1261-1264, **2009**.
- xviii)** Trichloro-mono- β -diketonato oxorhenium(V) complexes: synthesis, characterizataion and crystal structure, B. Das, S. Sarkar, **A. Patra**, M.G.B. Drew, P. Chattopadhyay, *Journal of*

➤ Ongoing Projects/Consultancies :

Name of the Department	Title of the Project	Funding Agency	Amount sanctioned in Rupees	Sanctioned year	Current status of the project
Chemistry	Coordination Chemistry of Copper (II) complexes with N,O/N ₂ O ₂ donor Schiff base ligands: Synthesis, characterization, structure and protein binding activity	UGC Minor	4.43 Lakhs	2015-17	Ongoing

➤ Research Interest:

- i) Design, synthesis, reactivity and structure analysis of various transition and non transition metals with N,S/ N,N/ N,O/N,S,O- donor ligands.
- ii) Development of new chemo sensors for biologically active ions.
- iii) Application in Metal complexes with various biological processes as proteins and DNA cleavage.

➤ Association with any other organization:

- i) Life member in Indian Chemical Society

