CURRICULUM VITAE

Dr. Aparup Paul, M.Sc., Ph.D.
Lecturer-in-Charge

Raja Rammohan Roy Govt. P.T.T.I.
Radhanagar, Nangulpara, Hooghly -712406

Email: paulaparup@gmail.com
Url: https://orcid.org/0000-0002-3296-1688
Scopus Author ID: 56681691400
Website: https://sites.google.com/view/aparup-paul/home?authuser=0

Personal Details

Date of Birth:	August 26, 1988
Nationality:	Indian
Sex:	Male
Marital Status:	Married
Contact No:	9775576694
Permanent Address:	Vill.+P.O. - Amjore, Dist.- Paschim Medinipur, P.I.N.-721157, W.B.

EducationalQualification

- Ph.D. in Chemistry: Vidyasagar University, Midnapore, W.B.

  Supervisor: Prof. Subal Chandra Manna

  Title of the Ph.D. Thesis: Synthesis, Crystal Structure, Low temperature magnetic behavior and Biological activity of Schiff base Coordinated Poly-nuclear Cu(II) Complexes

  Shodhganga Link: http://hdl.handle.net/10603/287014

- M.Sc. in Chemistry: Vidyasagar University, Midnapore, W.B.

- B.Sc. in Chemistry: Midnapore College, Vidyasagar University, Midnapore, W.B.

Awards

- Junior Research Fellowship (CSIR) in CSIR-UGC NET.
- GATE, Conducted by IIT-DELHI.

Teaching Experience

- Nov-2024 to Present: Lecturer-in-Charge, Raja Rammohan Roy Govt. P.T.T.I., Radhanagar, Nangulpara, Hooghly, Pin-712406.
- Oct-2016 to Nov-2024: Lecturer in Chemistry, Laudoha Govt. P.T.T.I., Laudoha, Paschim Bardhaman, Pin-713385.
- July-2013 to Oct-2016: Guest Lecturer in Chemistry at Raja Narendralal Khan Womens' College, Gope palace, Midnapore, Pin-721102.

Areas of Research Interest

- Coordination Chemistry
- Metal-Organic Framework
- Supramolecular Chemistry

Recent International Publications

2026

1. Crystallographic and quantum chemical methods to elucidate the structural and electronic characteristics of a Zn(II) complex, **Inorganica Chimica Acta**, 2026, 595, 123100. **Impact Factor = 3.3**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.ica.2026.123100

2. Synthesis, spectral characterization, crystal structures and protein binding of novel Cu(II) complexes with N,O-donor Schiff bases: A combined experimental and theoretical study, **Journal of Molecular Structure,** 2027, 1379, 147307. **Impact Factor = 4.9**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.molstruc.2026.147307

2025

1. Unveiling Iron(III) Complex: Structural Elucidation, DFT Insights, Hirshfeld Surface Analysis, and Cytotoxic Activity, **Russian Journal of Inorganic Chemistry**, 2025. **Impact Factor = 1.5**, Published by Springer Nature.
   Link: https://link.springer.com/article/10.1134/S0036023625600650

2. Flexible chelating and rigid linear ligands coordinated dinuclear Zn(II) complex: Synthesis, crystal structure, protein binding, molecular docking and thermal analysis , **Journal of Molecular Structure,** 2025, 1338, 142142. **Impact Factor = 4.9**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.molstruc.2025.142142

3. Tridentate chelating ligand coordinated Co(III) complexes: Synthesis, crystal structure, DFT/TD-DFT calculation, studies of interaction with proteins and molecular docking , **Inorganica Chimica Acta**, 2025, 574, 122379. **Impact Factor = 3.2**, Published by Elsevier.
Link: https://doi.org/10.1016/j.ica.2024.122379

2023

1. Tris chelated meridional isomers of Co(III) complexes: Synthesis, crystal structure, protein binding, cytotoxicity studies and DFT / TDDFT calculation , **Inorganica Chimica Acta**, 2023, 550, 121423. **Impact Factor = 3.2**, Published by Elsevier.
Link: https://doi.org/10.1016/j.ica.2023.121423

2022

1. Linear dicarboxylato and tridentate chelating ligands coordinated Cu(II) complexes: Syntheses, crystal structures, protein binding and cytotoxicity studies, **Polyhedron**, 2022, 222, 115888. **Impact Factor = 3.052**, Published by Elsevier.
Link: https://doi.org/10.1016/j.poly.2022.115888

2021

1. Cu(II)-Na(I) heterometallic coordination compounds as photocatalyst for degradation of methylene blue, **Inorganica Chimica Acta**, 2021, 522, 120346. **Impact Factor = 3.2**, Published by Elsevier.
Link: https://doi.org/10.1016/j.ica.2021.120346

2020

1. Field-Induced Slow Magnetic Relaxation in Mixed Valence Di- and Tri-nuclear CoII-CoIII Complexes, **Dalton Transactions**, 2020, 49, 9516-9528. **Impact Factor = 4.39**, Published by Royal Society of Chemistry.
Link: https://pubs.rsc.org/en/content/articlelanding/2020/dt/d0dt00588f

2. Tetranuclear and 1D Polymeric Cd(II) Complexes with a Tetrapyridyl Imidazolidine Ligand: Synthesis, Structure, and Fluorescence Sensing Activity, **Crystal Growth & Design**, 2020, 20, 5, 2904-2913. **Impact Factor = 4.076**, Published by American Chemical Society.
Link: https://pubs.acs.org/doi/10.1021/acs.cgd.9b01192

2019

1. DNA/protein binding and molecular docking studies of two tetranuclear Cu(II) complexes with double-open-cubane core like structure, **Inorganica Chimica Acta**, 2019, 495, 119005. **Impact Factor = 3.2**, Published by Elsevier.
Link: https://doi.org/10.1016/j.ica.2019.119005

2. Structure and magnetic characterization of tetranuclear closed/double-open cubane core, and 1D polynuclear copper(II) complexes, **Journal of Solid State Chemistry**, 2019, 271, 378–385. **Impact Factor = 3.5**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.jssc.2019.01.009

2018

1. Double μ2-(phenoxido)-bridged dinuclear and polynuclear nickel(II) complexes: Magnetic properties and DNA / protein interaction, **Polyhedron**, 2018, 157, 39–48. **Impact Factor = 3.052**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.poly.2018.09.023

2. Synthesis, crystal structure and DNA/protein binding of tetranuclear Cu(II) complexes with a double-open-cubane like core framework, **Polyhedron**, 2018, 155, 447–456. **Impact Factor = 3.052**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.poly.2018.08.020

2017

1. Structural and Magnetic Characterization of Two Tetranuclear Cu(II) Complexes with Closed-Cubane-Like Core Framework, **ChemistrySelect**, 2017, 2, 3317-3322. **Impact Factor = 2.109**, Published by Wiley.
   Link: https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.201700669

2. Structural and magnetic characterization of three tetranuclear Cu(II) complexes with face-sharing-dicubane/double-open-cubane like core framework, **Journal of Solid State Chemistry**, 2017, 249, 29–38. **Impact Factor = 3.5**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.jssc.2017.02.009

3. Manganese(IV) complex with a polydentate Schiff base ligand: synthesis, crystal structure, TDDFT calculation, electronic absorption and EPR spectral study, **Journal of Coordination Chemistry**, 2017, 70, 296–313. **Impact Factor = 2.2**, Published by Taylor & Francis .
   Link: https://www.tandfonline.com/doi/full/10.1080/00958972.2016.1248949

2016

1. Synthesis, crystal structure, DFT / TDDFT calculation, photophysical properties and DNA binding studies of morpholino moiety ligand based two Cu(II) complexes in combination with carboxylates, **RSC Advances**, 2016, 6, 60487- 60501. **Impact Factor = 4.6**, Published by Royal Society of Chemistry.
   Link: https://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra05570b

2. A combined experimental and theoretical investigation on the Cu(II) sensing behavior of a piperazinyl moiety based ligand, and catecholase and biological activities of its Cu(II) complex in combination with pyridine 2,5-dicarboxylate, **Polyhedron**, 2016, 104, 63–72. **Impact Factor = 3.052**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.poly.2015.11.030

3. DNA/protein binding and magnetic properties of a 1D Cu(II) complex containing fumarate and tridentate Schiff base ligands, **Polyhedron**, 2016, 119, 460–470. **Impact Factor = 3.052**, Published by Elsevier.
   Link: https://doi.org/10.1016/j.poly.2016.09.028

2015

1. Synthesis, characterization, TDDFT calculation and biological activity of tetradentate ligand based square pyramidal Cu(II) complexes, **RSC Advances**, 2015, 5, 67727–67737. **Impact Factor = 4.6**, Published by Royal Society of Chemistry.
   Link: https://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra12324k