

# 'Curriculum Vitae'

Dr. Sujit Kumar Bera

Associate Professor of Chemistry

Department of Chemistry

Bidhan Chandra College

Asansol – 713 304, W.B.

E.mail: [sujitkbera@gmail.com](mailto:sujitkbera@gmail.com)



**Academic Qualification:** M.Sc, Ph.D.

**Teaching experience:** i) Faculty of Department of Chemistry, Bidhan Chandra College, Asansol since 2007.

ii) Ex-part time lecturer in Department of Chemistry, Sidho-Kanho-Birsha University, Purulia.

**Teaching Areas:** Inorganic Chemistry especially Molecular Bonding, Coordination Chemistry, Magnetochemistry and Analytical Chemistry.

## List of Publications:

### Book:

1. “*Lanthanides and Actinides: A Brief Introduction*” – Sujit Kumar Bera, Avenel Press, 2018, **ISBN No** 978-93-80736-99-0.

### Journal Papers:

1. *Recent Progress in Metal Assisted Multicomponent Synthesis of Heterocycles* - Pradip Kumar Maji, Rafiuqe Ul Islam, **Sujit Kumar Bera**, *Heterocycles*, **89**, 869 (2014).
2. Kinetic and mechanistic study of the interaction between *cis*-[Pt(N-N)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> ( N-N = ethylenediamine or N,N'-dimethylethylenediamine) and L-glutamic acid in aqueous medium - **Sujit K. Bera**, Swapan K. Chandra and Gauri S. De, *Inorganic Reaction Mechanism*, **5**, 173 (2005).

3. Substitution of aqua ligands from *cis*-[Pt(en)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> and *cis*-[Pt(dmen)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> ( en = ethylenediamine, dmen = N,N'-dimethylethylenediamine) by glycine in aqueous medium – A kinetic and mechanistic approach – **Sujit K. Bera**, Swapan K. Chandra and Gauri S. De, *International J. Chemical Kinetics*, **37**, 489 (2005).
4. Synthesis, crystal structure and magnetic properties of binuclear complexes Mn<sup>III</sup>-azido and 1D polymeric Mn<sup>II</sup>-μ<sub>1,3</sub>-thiocyanato novel species based on a neutral hexadentate Schiff base – Soma Deoghoria, **Sujit K. Bera**, Brian Moulton, Michael J. Zaworotko, Jean-Pierre Tuchagues, Golam Mostafa, Tian-Huey Lu and Swapan K. Chandra, *Polyhedron*, **24**, 343 (2005).
5. Kinetic and mechanistic approach of the interaction of glycyglycine with *cis*-[Pt(en)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> and *cis*-[Pt(dmen)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> ( en = ethylenediamine, dmen = N,N'-dimethylethylenediamine) in aqueous medium - **Sujit K. Bera**, and Gauri S. De, *Indian J. Chem.*, **43A**, 1882 (2004).
6. Kinetics of substitution of aqua ligands from *cis*-diaqua(ethylenediamine) platinum(II) perchlorate by L-asparagine in aqueous medium – **Sujit K. Bera**, Swapan K. Chandra and Gauri S. De, *International J. Chemical Kinetics*, **35**, 252 (2003).
7. Substitution of aqua ligands from *cis*-[Pt(en)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> and *cis*-[Pt(dmen)(H<sub>2</sub>O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub> ( en = ethylenediamine, dmen = N,N'-dimethylethylenediamine) by glutathione (reduced) (GSH) in aqueous medium – A kinetic and mechanistic study – **Sujit K. Bera**, Partha S. Sengupta and Gauri S. De, *Inorganic Reaction Mechanism*, **5**, 65 (2003).
8. Synthesis, crystal structure and magnetic properties of a new ferromagnetic nickel(II) dimer derived from a hexadentate Schiff base ligand – Soma Deoghoria, Sushama Sain, Monica Soler, W. T. Wong, George Christou, **Sujit K. Bera** and Swapan K. Chandra – *Polyhedron*, **22**, 257 (2003).
9. Kinetics of substitution of aqua ligands from *cis*-diaqua(ethylenediamine) platinum(II) perchlorate by guanosine in aqueous medium.- Partha S Sengupta, Ramanath Sinha, Sujit K. Bera and Gauri S. De, *Indian J. Chem.*, **41A**, 712 (2002).

10. Synthesis, structure, spectra and redox behaviour of a ruthenium(III) complex with a tripodal Schiff base ligand – S. Deoghoria, S. Sain, T. K. Karmakar, **S. K. Bera** and S. K. Chandra, *J. Ind. Chem. Soc.*, **79**, 857 (2002).
11. Synthesis, crystal structure and magnetic behavior of two new binuclear complexes bridged by a pentadentate ligand :  $[\text{Ni}_2\text{L}_2(\text{NCS})_2](\text{ClO}_4)_2$  and  $[\text{Ni}_2\text{L}_2(\text{NCO})_2](\text{ClO}_4)_2$ , [L = pentadentate ligand] – Soma Deoghoria, Sushama Sain, Brian Moulton, Michael J. Zaworotko, **Sujit K. Bera** and Swapan K. Chandra, *Polyhedron*, **21**, 2457 (2002).

**Title of the Ph.D. Thesis:** “Kinetic and mechanistic studies of aqua ligand substitution from aqua-ethylenediamine complexes of Platinum (II) by amino acids and peptides in aqueous medium.”