

## Faculty Profile

**Name:** Mr. Kalachand Mahali

**Designation:** Assistant Professor

**Faculty:** Science

**Department:** Chemistry

**Room No.:** 219

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**Web Address:**

**Qualifications:** B.Sc. Visva-Bharati, India (2003)

M.Sc. Visva-Bharati, India (2005)

Ph.D. Visva-Bharati (going on), India

**Areas of Interest/Specialization:** Inorganic Chemistry

**Teaching:**

1. Theories of Chemical Bonding
2. Magnetic Properties and Coordination Compounds
3. Poly acids, Clusters and Metal-Metal Bonded Complexes
4. Reaction Mechanism of Transition Metal Complexes
5. Bioinorganic Chemistry with Chemotherapeutic Drugs
6. Electron Transfer Reactions and Mechanisms

**Research:** 1. Non-Aqueous Solution Chemistry

2. Aqueous Solution Chemistry

3. Synthetic and Physical Inorganic Chemistry

**Professional Experiences:**

Assistant Professor: University of Kalyani (2012- till date)

**Best Peer Reviewed Publications/Books:**

1. "Thermodynamic Solvation of a Series of Homologous  $\alpha$ -Amino Acids in Non-aqueous Mixture of Ethylene-glycol and *N, N*-Dimethyl formamide," *Journal of Biophysical Chemistry*, Vol.2, No.3, (2011), 185-193.
2. "Solvation Thermodynamics of a Series of Homologous  $\alpha$ -Amino Acids in Non-aqueous Binary Mixtures of Protic Ethylene Glycol and Dipolar Aprotic Acetonitrile," *Journal of Solution Chemistry*, 42 (2013), 1096-1110.
3. "Thermodynamic Solvation of a Series of Homologous  $\alpha$ -Amino Acids in Aqueous Mixtures of 1,2-Dimethoxyethane," *Journal of Solution Chemistry*, 42 (2013), 1472-1487.
4. "Thermodynamic Interactions Due to Transfer of Amino Acids, Glycine and DL-Alanine from Water to Aqueous Mixture of Cationophilic Dipolar Aprotic *N,N*-Dimethyl formamide," *Asian Journal of Chemistry*, Vol. 25, No. 14 (2013), 8037-8042.
5. "Thermodynamic Solvation of  $\alpha$ -Amino Acid in Aqueous Mixture of Dipolar Aprotic *N, N*-Dimethyl formamide," *Asian Journal of Chemistry*, Vol. 25, No. 12 (2013), 6661-6665.



