

## FORMER M.Sc. STUDENTS

Name	M.Sc. Thesis Title	Year
Ms. Palle Swapna Rao	Synthesis Characterization and Redox Properties of Ruthenium(II) Phenolato Complexes In Presence of Strong $\pi$ -Acidic Co-Ligand	1995
Mr. Ganesh A. Thakur	A New Family of Ruthenium(II) Dithiocarbonato Complexes Having 2, 2'-Bipyridine Co-Ligands. Synthesis, Characterization, High Resolution $^1\text{H-NMR}$ Spectra and Redox Properties. Electro-oxidation to Ruthenium(III) Congener and Distortion Parameters	1995
Ms. Kripa Devi Keerthi	Ruthenium(II) Bipyridine Complexes with Modified Phenolic Schiff Base Ligands. Synthesis, Spectroscopic Characterization and Electron Transfer Properties	1997
Mr. Ramanathan Hariram	Paramagnetic Ruthenium(III) Cyclometallated Complexes. Synthesis, Spectroscopic Studies and Electron-Transfer Properties	1997
Ms. Shilpa K. Kulkarni	Ruthenium(II/III) Bipyridine Complexes with Four-Membered Sulphur Donor Co-Ligands. Synthesis, Metal Valence Preference, Spectroscopy and Electron Transfer Properties	1998
Mr. A. Bharath	Cobalt-Mediated Selective C-H Bond Activation Direct Aromatic Hydroxylation in the Complexes $[\text{Co}^{\text{III}}(o\text{-O-C}_6\text{H}_3(\text{R})\text{N}=\text{NC}_5\text{H}_4\text{N})_2]\text{ClO}_4 \cdot \text{H}_2\text{O}$ (R= H, <i>o</i> -Me/Cl, <i>m</i> -Me/Cl, <i>p</i> -Me/Cl). Synthesis Spectroscopic and Redox Properties	1998
Mr. Debdeep Bhattacharya	Ruthenium (II/III) Bipyridine Complexes Incorporating Thiol Based Imine Functions, Synthesis Spectroscopic and Redox Properties	1999
Mr. Prateek U. Jain	The Chemistry of Ruthenium and Osmium Complexes Incorporating Dithio-Acid Based Phosphate Ligands	1999
Mr. Shantanu Karve	Spin State Preference in Octahedral Cobalt(II) System Incorporating Azo-Imine Functionalities	2000
Ms. N. Renuka	Development of New Class of Ruthenium-Quinone Systems Incorporating $\alpha, \alpha'$ -Diimine Function	2000
Mr. Biprajit Sarkar	Dinuclear Ruthenium(II)-Bipyridine Complexes Incorporating Tetrazine Derived Bridging Ligand	2001
Mr. Ranitendranath Tagore	Development of Dinuclear Ruthenium(II) Phenanthroline Complexes Incorporating $\alpha, \alpha'$ -Diimine Based Bridging Ligands	2001
Mr. Pijus Kanti Roy	Studies on the Chemistry of Ruthenium-Aminoquinoline Species Incorporating A Stable Free Radical	2002
Mr. Soumava Santra	Synthesis and Spectroelectrochemical Aspects of Diruthenium Complexes Incorporating $\alpha, \alpha'$ -Diimine Based Bridging Ligands	2002
Mr. Debabrata Maiti	Synthesis, Structure, Spectral and Electron-Transfer Properties of	2003

	Octahedral-[Co <sup>III</sup> (L) <sub>2</sub> ] <sup>+</sup> / [Zn <sup>II</sup> (L) <sub>2</sub> ] and Square Planar-[Cu <sup>II</sup> (L){OC(=O)CH <sub>3</sub> }] Complexes Incorporating Anionic Form of Tridentate Bis(8-Quinoliny)amine [N <sup>1</sup> C <sub>9</sub> H <sub>6</sub> -N <sup>2</sup> -C <sub>9</sub> H <sub>6</sub> N <sup>3</sup> , L <sup>-</sup> ] Ligand	
Ms. Debamita Paul	Stepwise Synthesis of [Ru <sup>II</sup> (trpy)(L)(X)] <sup>n+</sup> (trpy = 2, 2', 6', 2''-Terpyridine; L = 2-(2-Pyridyl)-N-Methyl-Benzimidazole; X = Cl <sup>-</sup> , H <sub>2</sub> O, NO <sub>2</sub> <sup>-</sup> , NO <sup>+</sup> ), An Example of Moderately Strong Electrophilic Ru-NO <sup>+</sup> Center	2004
Mr. Animesh Nayak	Ruthenium-Tetrazine Complexes Incorporating Ancillary Ligands of Different Electronic Nature. Synthesis, Structure, and Spectro-electrochemical Properties	2004
Mr. Sounak Sarkar	The Complex Series [Ru(trpy)(dpk)(X)] <sup>n+</sup> (trpy = 2,2':6',2''-terpyridine, dpk = 2,2'-dipyridylketone, X = Cl <sup>-</sup> , CH <sub>3</sub> CN, NO <sub>2</sub> <sup>-</sup> , NO <sup>+</sup> , NO <sup>•</sup> , NO <sup>-</sup> ): Substitution and Electron-Transfer, Structure and Spectroscopy	2005
Ms. Chandrani Chatterjee	Development of Moderately Strong Electrophilic Ruthenium-Nitrosyl Center in [Ru(trpy)(L)(NO)] <sup>3+</sup> (trpy = 2,2':6',2''-Terpyridine, L = 3-Pyridyl-5,6-Diphenyl-as-Triazine)	2006
Ms. Sriparna Mukherjee	Investigation of Mixed Valency in [ {(aap) <sub>2</sub> Ru } <sub>2</sub> (μ-L <sup>2-</sup> ) ] <sup>2+</sup> Complexes, where aap = NC <sub>6</sub> H <sub>4</sub> -N=N-C <sub>6</sub> H <sub>4</sub> (R) (R = H, Cl, Me) and L <sup>2-</sup> = 5,8-Dioxido-1,4-naphthoquinone via Spectroelectrochemistry and EPR	2006
Mr. Arnab Dutta	Investigation of Mixed Valency and Valence State Distributions in Diruthenium(III)-Acetylacetonate Derivatives [ {(acac) <sub>2</sub> Ru <sup>III</sup> } <sub>2</sub> (μ-L <sup>2-</sup> ) ] Bridged by Large Quinonoid Frameworks	2007
Mr. Malay Patra	Synthetic, Redox and Reactivity Aspects of [Ru(trpy)(pip)(NO)] <sup>3+</sup> Involving Electrophilic Nitrosyl Function (trpy = 2,2':6',2''-Terpyridine, pip = 2-phenylimidazo[4,5-f][1,10]phenanthroline)	2007
Mr. Nirmal Chandra Kangsabanik	Mixed Valency in the Molecular Framework of [ {(acac) <sub>2</sub> Ru <sup>III</sup> } <sub>2</sub> (μ-L <sup>2-</sup> ) ] (L <sup>2-</sup> = 2,2'-Bibenzimidazole)	2009
Mr. Raja Pal	Ruthenium Catalyzed Homogeneous Epoxidation and Water Oxidation Process	2011
Mr. Tuhin Patra	Electronic Structure of [(pap)Ru(Q) <sub>2</sub> ] <sup>n</sup> (n = +3, +2, +, 0, -) Incorporating Three Redox Non-Innocent Ligands (Q = 3,5-Di- <i>tert</i> -butyl- <i>N</i> -aryl-1,2-benzoquinonemonoimine, pap = 2-phenylazopyridine)	2011
Ms. Garima Mathur	Ruthenium Nitrosyl Complexes in (Ru-NO) <sup>6</sup> and (Ru-NO) <sup>7</sup> Redox States	2012
Mr. Tamal Kanti Ghosh	Synthesis and Characterization of Ruthenium Complexes with Redox Noninnocent Ligand and Their Reactivity Towards Oxidative Cleavage of Alkenes	2012