

ASSAM UNIVERSITY SILCHAR
DEPARTMENT OF CHEMISTRY

Project allocation of course CH-403 A, B & C for the session Jan-June, 2018

Names of the faculty	Names of the student	Project titles
Prof. C.R. Bhattacharjee	Debika Gogoi	Synthesis and characterization of photoluminescence copper(II) complexes of 'Salen' type Schiff base ligands
	Saikatendu Deb Roy	Doping compartmental Schiff base ligands with gold nanoparticles : synthesis, mesomorphism and photoluminescence
	Neeharika Das	Algae mediated green synthesis of silver nanoparticle (AgNP) : A study of catalytic, antimicrobial and anticoagulative activity
Prof. P.C. Paul	Monalisha Sharma	Mononuclear Cu(II) and Co(II) complexes of macrocyclic N ₄ O ₂ Schiff base ligand: Synthesis, characterisation and mesogenic properties.
	Abinash Gogoi	Cu(II) and Zn(II) complexes of amino acid derived Schiff base and their luminescence and mesogenic properties.
Prof. Sk. Jasimuddin	Piyali Deb	Electrochemical water oxidation using iron(III)-Me ₆ [14]dieneN(4) complex modified gold electrode
	Punam Kour	Electrochemical sensing of para-nitrophenol using ZnS@rGO nanocomposite modified glassy carbon electrode
	Musfica Sultana	Electrochemical sensing of dopamine using glassy carbon electrode modified with pyridine/iron oxide nanoparticles
	Rinku Moni Hazarika	Electrochemical sensing of uric acid using graphene oxide and electrochemically reduced graphene oxide modified electrodes
Dr. H. Acharya	Sushmita Sinha	Synthesis of Fe ₃ O ₄ nanoparticles supported metal organic framework hybrids and their application in nitrile synthesis
	Leeza Saikia	Synthesis of sulphur nanoparticles deposited layered double hydroxides
	Himashree Dutta	Synthesis of Zeolitic imidazoleate framework (ZIF-8) supported bimetallic (Pd and Ag) nanostructures
	Khushbu Kumari	Synthesis of silver nanoparticles by surface anchored metal organic framework (SURMOF) for catalytic reduction of aromatic nitro compounds
Prof. P. Mondal	Sarthak Nath Choudhury	Density functional theory study on structure, electronic, magnetic and catalytic properties of non-metal (Group 13) doped stable Rh _n (n=2-8) clusters

	Anuradha Sen	An Experimental and Theoretical Study on Zeolite-Y Encapsulated Ni (II)-Salen Complex and Ruthenium Oxide Nanocomposite
	Sunita Sinha	Transition metal complexes of schif base: Synthesis, Characterisation, DFT, Fluorescence Property and Invitro antimicrobial investigation
	Nirangkosh Borah	Density Functional study on structural and electronic properties doped ZnS for solar cell applications
Dr. D. Sengupta	Parnashabari Sarkar	Investigation of Combination of Indole and Pyridinium Substituted Amphiphilic Free- Base and Sn (IV) Complexes of Corroles and Porphyrins as Photosensitizers: Synthesis, Characterization and Photodynamic Antimicrobial Activities
	Sakir Ahmed Barbhuiya	Nitro Porphyrins as Photosensitizers in Cancer Photodynamic Therapy: Synthesis, Characterization and DNA- Binding Properties
	Debarati Chakraborty	Study of Cobalt(II) Porphyrins as a Possible Diagnostic Tool For MRI Detection of Malignant Tumors: Synthesis, Characterization and a Study of Their Basic Electronic Properties
	Prasanta Kr. Dutta	Precursors and Derivatives of Quinazoline : Synthesis and Characterization
Dr. Sudip Choudhury	Kuheli Deb	Benzothiazole based new pH responsive luminescent compounds
	Banibrata Choudhury	Synthesis, Characterisation and study of mesogenic properties of H-bonded mesogens with single side arm
	Sushmita Das	
Dr. Rajib Panchadhaye	Kiran Shah	P ₂ O ₅ -Al ₂ O ₃ : A heterogeneous catalyst used for the opening of benzyldine acetal of carbohydrate derivatives.
	Indira Singha	Synthesis of Monosaccharide building block towards total synthesis of cell wall repeating unit of <i>Escherichia coli</i> O133
	Abhijit Barman	L-Proline catalyzed Ferrier rearrangement reaction of carbohydrate derivative
Dr. M.K. Paul	Joydeep Deb	Design, Synthesis and Characterization of Three ring rod shaped liquid crystals
	Amit Narayan Sarkar	Design, Synthesis and Characterization of Three ring rod shaped liquid crystals
	Jyoti Ronghangpi	Room temperature unsymmetrical V- shaped mesogens: Synthesis, mesomorphic and photophysical studies
Dr. S.K. Ghosh	Smita Choudhury	Laser Ablation of Gold Nanostars: The Role of Tip-Heads

	Deepti Rajbongshi	Laser Heating of Gold Nanorods in Aqueous and Organic Media
	Aditya Phukon	Fluorometric Measuring of Surface Plasmon Field
	Surajita Mudoi	Energy Transfer in Gold-Fluoroprobe Hybrid Assemblies: Medium Dielectric Dependence
Dr. T. Sanjoy Singh	N. Anjana Singha	A highly selective and sensitive azo based Schiff base fluorescent chemosensor for Zn(II) and Cu(II)
	Nipa Basumatary	Photophysics of a donor-acceptor based Schiff base in solvents of varying polarities
	Pritam Nath	A comparative study on fluorescence behavior of Schiff Base in different bio-mimicking aqueous interfaces