

ASSAM UNIVERSITY SILCHAR
DEPARTMENT OF CHEMISTRY

Project allocation of course CH-403 A, B & C for the session Jan-June, 2017

Names of the faculty	Names of the student	Project titles
Prof. C.R. Bhattacharjee	Priya Nath	
	Phanindra Barman	Schiff base and coinage metals (Au, Ag and Cu) nanohybrides- mesomorphism, photoluminescence and antioxidant properties
	Priyanka Gogoi	Chirality transfer in smectic liquid crystalline phase using a chiral Schiff base functionalized gold nanocluster
	Mrinal Gogoi	Mixed d-f block metalcomplexes of tetradenate Schiff base ligand: design, synthesis, characterization and properties
Dr. P.C. Paul	Sandeep Paul	Salicylaldimine based [NO] donor Schiff base complees of Cu(II) and Zn(II): Synthesis, characterisation and mesogenic properties.
	Prerna Singha	Synthesis and characterisation of methyl ester of amino acid based Schiff base ligands bearing terminal alkoxy group and their complexes with Cu(II), Zn(II) and Co(II).
Dr. Sk. Jasimuddin	Umme Solaem Akond	Electrocatalytic water oxidation on Mn ₁₂ O ₁₂ nanoparticles modified electrode
	Nilutpal Dutta	Simultaneous detection of hydroquinone and catechol using silver-cupric oxide nanocomposite modified electrode
	Ratnadeep Nath	Electrochemical sensing of p-nitrophenol using nickel oxide nanoparticles modified glassy carbon electrode
	Nandini Phukan	Electrochemical water oxidation with copper hexacyanoferrate complex modified electrode
Dr. H. Acharya	Nayanjoti Saharia	Synthesis of graphene oxide based MnO ₂ nanocomposites for catalytic dye degradation
	Shahidulla Al Faruk	Synthesis of layered double hydroxide -copper amino acid metal organic framework
	Debasish Gogoi	Layered double hydroxide/copper terephthalate metal organic framework hybrids in organic dye adsorption
	Sangita Bhuiyan	Controlled synthesis of ZnO nanostructure from Zn-Al-LDH on graphene oxide nanosheets
Dr. P. Mondal	Abhijait Shyam	Bis(di-ethylamino)cyclopropenyliene (BAC) Catalyzed Intermolecular Stetter Reaction of p-methoxybenzaldehyde with Michael Acceptor: A Density Functional Study.

	Pankaj Das	Rhodium(I) Catalysed Intermolecular Chelation Controlled Alkene Hydroacylation via C-H activation: A DFT Study
	Ankita Jalan	Synthesis and characterization of zeolite encapsulated nanocrystalline ruthenium oxide and study its catalytic activity in various oxidation reactions
	Sahidul Iqbal Barbhuiya	Mechanistic Approach Towards N-Heterocyclic Carbene catalysed δ -Carbon LUMO Activation of Unsaturated Aldehydes: A Detail Density Functional Study
Dr. D. Sengupta	Bishal Das	4-(10,15,20-TRI-Thiophen-2-YL-Porphyrin-5-YL)-Phenol With Versatile Photo- Electronic and Photo-Physical Properties: Synthesis, Isolation and Spectroscopy characterization
	Bijay Debnath	Synthesis and characterization of a Quinazolinone-Fulleropyrrolidine[C60] Dyad
	Manjur Hassan Barbhuiya	Immunomodulatory and DNA- Binding Properties of a Photosensitizers Having Combinations of 4 - Nitro and 4 - Hydroxy Benzene in MESO Positions of A Cisporphyrin
	Indrajit Das	Quinazolinone- Magnetite Nanocomposite: Synthesis and Characterization
	Dari Ingi Marwein	A Synthetic Approach for The Generation of Water-Soluble Pyrimidine Derivatives With Molecular Sieves and BF_3/HCl As Catalyst
Dr. Sudip Choudhury	Shirin Aktar Choudhury	
	Bishnu Gogoi	Design and synthesis of xanthene derivatives
	Nishitendu Bikash Nandi	
Dr. Rajib Panchadhayee	Dipankar Acharyee	"Click chemistry" inspired synthesis of some glycosyl 1, 2, 3- triazole conjugate.
	Amarjyoti Mohan	Preparation of Benzylidene Acetal of Carbohydrates Using $\text{P}_2\text{O}_5\text{-Al}_2\text{O}_3$ as Catalyst under Solvent Free Condition
	Shika Chaliha	Graphene Oxide: An efficient catalyst for construction of benzylidene acetal of carbohydrates.
	Akshyajit Poddar	Preparation of highly substituted pyridine derivatives using LDH as a base catalyst
Dr. M.K. Paul	Kankan Talukdar	Dimer composed of coumarin monomeric units: Synthesis, characterization and mesomorphism
	Debabratt Sutradhar	Synthesis, mesomorphic and photo-physical studies of a new Zn(II) complex derived from four ring unsymmetrical bent core molecule

	Banti Baishya	Synthesis, characterization and mesomorphic behaviour of N(4-Alkyloxybenzoyl)-N'-(4'-nitrobenzoyl)hydrazide
	Ratan Das	Three ring V-shaped mesogens: Synthesis, Characterization and mesomorphism
Dr. S.K. Ghosh	Debasish Nath	Size-Dependent Plasmonic and Photoluminescence Properties of Ultrasmall Gold Nanospheres
	Darshana Das	Laser-Induced Heating of Nanoscale Gold Aggregates
	Arup Roy	Plasmonic Response of J- and H- Aggregates of Gold Nanorods
	Lekhika Gogoi	Laser-Induced Heating of Aspect Ratio Dependent Gold Nanorods
Dr. T. Sanjoy Singh	Ajoy Regon	An intramolecular charge transfer based reversible turn-on fluorescence probe for Zn(II)/ Cu(II) ion and subsequent fluoride anion detection through Zn-complex
	Dipankar Das	Fluorescence behavior of the Schiff base in different bio-mimicking aqueous interfaces and studies on the inclusion complexation between probe and β -Cyclodextrin in presence of ionic and non ionic surfactants
	Rajkamal Singh	A highly selective chemosensor for Zn(II) and Al(III) and subsequent quenching of Zn – complex by carbonate ions (CO_3^{2-})
	Tribeni Barua	Fluorescence behavior of Schiff base - (e)-n-(3-(4-(dimethylamino)phenyl)allylidene)-4-trifluoromethyl benzenamine in different bio-mimicking aqueous interfaces