

## PhD Thesis Using Femtosecond Laser Facility in Chemistry Group

Sr. No	Ph. D. Students	Title of Thesis	Guide	Institute & Year
1	Ajay K. Singh	Ultrafast Relaxation Dynamics in Some Organic Molecules in Solution Phase	Jai P. Mittal	University of Mumbai, 2002
2	Sukhendu Nath	Fast and Ultrafast Photoinduced Processes in Fullerene and Other Organic Molecules	A. V. Sapre	University of Mumbai, 2002
3	Guda Ramakrishna	Study of Interfacial Electron Transfer Dynamics in Dye sensitized Wide Bandgap Semiconductor Nanoparticles	Jai P. Mittal	University of Mumbai, 2005
4	Jahur A. Mondal	Ultrafast Dynamics Of Photoinduced Intra- And Intermolecular Processes In Condensed Phase.	Dipak K. Palit	University of Mumbai, 2010
5	Vaishali Samant	Ultrafast Hydrogen Bond and Electron Transfer Dynamics in the Excited States 9-Fluorenonen and Its Amine Derivatives.	Dipak K. Palit	University of Mumbai, 2010
6	Prabhat K. Singh	Studies on the Dynamics of Ultrafast Photoinduced Processes in Condensed Phase Using Thioflavin-T and Coumarin as the Probes	Haridas Pal	HBNI, 2011
7	Chandralekha Singh	Investigation of Ultrafast Dynamics of the Excited States of Donor-Acceptor Molecules in Condensed Phase.	Dipak K. Palit	University of Pune, 2012
8	Sachin R. Rawalekar	Ultrafast Charge Transfer Dynamics of II-VI Semiconductor Nanostructure Materials.	Hirendra N. Ghosh	University of Pune, 2012
9	Sreejith Kaniyankandy	Charge Transfer Dynamics in Quantum Dot and Quantum Dot Based Nanostructures.	Hirendra N. Ghosh	HBNI, 2012
10	Sandeep Verma	Ultrafast Interfacial Electron Transfer Dynamics in Dye-Sensitized Semiconductor Nano-Materials	Hirendra N. Ghosh	HBNI, 2012
11	Prasenjit Kar	Synthesis, Characterization, Physicochemical Studies of Some New Photoactive Molecules and Studies on Interfacial Electron Transfer Dynamics to Semiconductor Nanoparticles.	Amitava Das	NCL, Pune, 2012
12	Tanmay Banerjee	Optimizing the Interfacial Electron Transfer Rates in Ru(II)-, Os(II)-, Re(I)-polypyridyl Based Sensitizer-TiO <sub>2</sub> Ensembles.	Hirendra N. Ghosh	NCL, Pune, 2013
13	Snehal Kakade	Investigation of Ultrafast Dynamics of Organic Molecules and Nanocomposites Using Pump-Probe Spectroscopy.	Dipak K. Palit	University of Mumbai, 2014
14	Rajib Ghosh	Ultrafast Excited State Dynamics of Intramolecular Charge Transfer Molecules in Solution.	Dipak K. Palit	HBNI, 2015
15	Poonam Verma	Studies on Photoinduced Electron Transfer and Charge Transfer Processes Involving Organic Donor-Acceptor Systems, Lanthanide Complexes and Uranyl Ions.	Haridas Pal	HBNI, 2015
16	Arpan Manna	C-C bond Formation and Electron-Proton Transfer Reactions in Unusual Media.	Anil Kumar	NCL, Pune, 2015
17	Tushar Debnath	Ultrafast Charge Transfer Dynamics in Solar Cell Materials.	Hirendra N. Ghosh	HBNI, 2016
18	Partha Maity	Ultrafast Charge Transfer Dynamics in Quantum Dots and Quantum Dots/Molecular Adsorbate.	Hirendra N. Ghosh	HBNI, 2016
19	Mohammed Ahmed	Spectroscopic Studies on Interactions of Ions, Water and Bio-molecules and Applications.	Ajay K. Singh	HBNI, 2016
20	Biswajit Manna	Dynamics of Excited States and Transient Species in Self Assembled Media	Dipak K. Palit	HBNI, 2017
21	Jayanta Dana	Ultrafast Charge Transfer Dynamics of Dye-Semiconductor and Metal Nano-composite Material.	Hirendra N. Ghosh	HBNI, 2017
22	Sourav Maiti	Ultrafast Charge Carrier Dynamics of Semiconducting Nanocrystalline Materials.	Hirendra N. Ghosh	University of Pune, 2017
23	Aruna K. Mora	Understanding the Ultrafast Dynamics of Molecular Rotor Based Amyloid Probes.	Sukhendu Nath	HBNI, 2017
24	Vijay Beniwal	Non-linear Polarity Scales, Interfacial Diels-Alder and ESIPT Reactions in Ionic Liquid Media.	Anil Kumar	NCL, Pune, 2017

25	Pallavi Singhal	Synthesis of Nanomaterials for Energy Conversion and Environmental Applications.	S. K. Jha	HBNI, 2019
26	Rahul Kalel	Photophysical Properties of Organic Molecules in Constrained Biological and Chemical Media.	Sukhendu Nath	Savitribai Phule Pune University, 2019
27	Papu Samanta	Photoinduced Electron Transfer Processes in Homogeneous and Microheterogeneous Media Involving Organic and Inorganic Donor Acceptor Systems.	Haridas Pal & Sharmistha Dutta Choudhury	HBNI, 2021
28	Ananta Dey	Role of Noncovalent Interactions in Proton-Coupled Electron Transfer (PCET) and Designing Supramolecular Assemblies.	Amitava Das	NCL, Pune, 2021
29	Sunil Aute	Synthesis, Characterization and Photophysical Studies of Dyes for Dye Sensitized Solar Application.	Amitava Das	CSMCRI, Bhavnagar, 2021
30	Subhadip Roy	Studies of Metabolites and Ions at Aqueous Interfaces by Surface-Sensitive Spectroscopic Technique.	Jahur A. Mondal	HBNI, 2021
31	Amitabha Nandi	Ultrafast Dynamics of Exciton and Charge Carriers in Thin Film and Nanoaggregates of Polyaromatic Molecules.	Sukhendu Nath	HBNI, 2022
32	Nishith Ghosh	Interface-Selective Vibrational Spectroscopic Study of Aqueous Interfaces: Application to Atmospheric and Biological Systems	Jahur A. Mondal	HBNI, 2023