

Dr. Trirup Dutta Choudhury
Assistant Professor



Area of Research Interest:

- Liquid Crystal, Photovoltaic Cell

Ongoing Project:

- Synthesis and Alignment of Discotic Liquid Crystal for their potential application in Photovoltaics, DST START-UP Project, Year of Sanction: 2014

List of Publications:

1. Solvatochromism of Polar Schiff base and its Cu(II) complex, T.D Choudhury, A.Bhattacharjee *J. Science Forum*, Karimganj College, Vol. 4, 2015, 57-63.
2. Synthesis and mesomorphism of new chiral imines and copper (II) complexes, M. K Paul, G. Kalita, A. R. Laskar, T. D Choudhury, N. V.S Rao. *J. Mol.Struct.* Vol 1039, 219-226.
3. Synthesis, mesomorphic and photo-physical properties of few d-and f-block metals coordinated to polar Schiff's bases, L. Chakraborty, N. Chakraborty, T. D. Choudhury, BVN Phani Kumar, A. B. Mandal, N. V.S Rao, *Mol. Cryst. Liq. Cryst.* Vol.39, 2012, 655-668.
4. Dinuclear ortho-metallated palladium (II) azobenzene complexes with acetato and chloro bridges: Influence of polar substituents on the mesomorphic properties, T. D. Choudhury, Y. Shen, N. V.S Rao, N. A Clark, *J. Organomet. Chem.* Vol. 712, 2012, 20-28.
5. Homeotropic alignment and director structures in thin film of triphenylene discotic liquid crystal controlled by supporting nano-structured substrate and surface alignment, T. Dutta Choudhury, N.V.S. Rao, R. Tenent, J. Blackburn, B. Gregg, and I.I Smalyukh., *J. Phy. Chem B*, Vol 115, 2011, 609-617.
6. Fluorescence Lanthanide complexes of Schiff base ligands possessing N-aryl moiety: influence of chain length of crossover (clamitic to discotic)Phase behavior: ,N.V. S Rao, T. D Choudhury, M. K.Paul R. Deb, M. K. Paul, T. R. Rao and T. Francis and I.I. Smalyukh, *Liq. Cryst.* Vol. 37, 2010, 1393-1410.
7. Mono and Binuclear complexes of salicylidene Schiff bases: Synthesis and mesogenic properties, N.V. S Rao, T. D Choudhury, M. K.Paul and T. Francis, *Liq. Cryst.* Vol.36, 2009, 409-323.