

PERFORMA

Name: **Dr. Manoj Kumar Paul**

Designation: Assistant Professor

Department: Chemistry

Specialization: **Physical chemistry, Liquid crystals**

Qualification: M. Sc., M. Phil., Ph. D.



Recent Publications:

1. S.W. Choi, N.Y. Ha, K. Shiromo, N.V.S. Rao, **M.K. Paul**, T. Toyooka, S. Nishimura, J.W. Wu, B. Park, Y. Takanishi, K. Ishikawa and H. Takezoe "Photoinduced circular anisotropy in a photochromic W- shaped molecule-doped polymeric liquid crystal film" *Phys. Rev. E.*, **2006**, 73, 021702
2. N.V.S. Rao, R. Deb, **M.K. Paul** and F. Tuluri "Mesomorphism of banana a banana mesogen: Influence of a Fluoro substituent in the central core" *Liq. Cryst.*, **2009**, 36, 977
3. N.V.S. Rao, T.D Choudhury, **M.K. Paul** and F. Tuluri "Mononuclear and binuclear complexes of salicylidene Schiff bases: synthesis and mesogenic properties" *Liq.Cryst.*, **2009**, 36, 409
4. N.V.S.Rao, T.D.Choudhury, **M.K. Paul**, T.R.Rao, T.Francis and I.I. Smalyukh "Fluorescent lanthanide complexes of Schiff's base ligand possessing N-aryl moiety: Infulence of he chain length on crossover (Calamatic to Discotic) phase behavior". *Liq. Cryst.*, **2010** (in press)
5. R.K.Deb, R.K.Nath, **M.K.Paul**, N.V.S.Rao, F.Tuluri, Y.Shen, R.Shao, D.Chen, C.Zhu, I.I.Smalyukh and N.A.Clark " Four ring unsymmetrical bent core molecules forming strongly smectic liquid crystals with spontaneous polar and chiral ordered B7 and B1 phase". *Journal of material chemistry*, **2010** doi:10.1039/C0JM01539C