

PROFORMA

Name Dr. Nandiraju Venkata
Satyanarayana Rao
Designation Professor and Head
Department Chemistry
Specialization Physical Chemistry
Liquid Crystals, Metallomesogens,
high k-materials



1. Four-Ring Achiral Unsymmetrical Bent Core Molecules Forming Strongly Fluorescent Smectic Liquid Crystals with Spontaneous Polar and Chiral Ordered B7 and B1 Phases
Rajdeep Deb, Rahul Kanti Nath, Manoj Kumar Paul, **Nandiraju V. S. Rao**, Francis Tuluri, Yongqiang Shen, Renfan Shao, Dong Chen, Chenhui Zhu, Ivan I. Smalyukh and Noel A. Clark
J. Materials Chemistry Communication in Press 2010 /c0jm01539c
2. Fluorescent Lanthanide complexes of Schiff base ligands possessing N-aryl moiety: Influence of Chain length on Crossover (Calamitic to Discotic) Phase Behaviour
Nandiraju V. S. Rao, Trirup D. Choudhury, Rahul Deb, Manoj K. Paul, Thatavarthi R. Rao, Tuluri Francis and Ivan I Smalyukh
Liquid Crystals [in press] 2010 Manuscript ID TLCT-2010-0063
3. Mesomorphism of a banana mesogen: influence of a fluoro substituent in the central core
Nandiraju V.S. Rao, Rajdeep Deb, Manoj Kr Paul and Tuluri Francis
Liquid Crystals 36, 977-87, 2009
4. Mononuclear and binuclear complexes of salicylidene Schiff bases: Synthesis and mesogenic properties
Nandiraju V.S. Rao, Trirup D. Choudhury, Manoj K. Paul and Tuluri Francis
Liquid Crystals 36, 409-23, 2009
5. A columnar mesophase from a disc-shaped molecule derived from triphenylamine: synthesis, mesomorphic behaviour and optical properties
K. C. Majumdar, N. Pal, P. Debnath, **Nandiraju V S Rao**
Tetrahedron Letters 48, 6330-6333, 2007.
6. A novel smectic liquid crystalline phase exhibited by W-shaped molecules
Nandiraju V S Rao, Manoj Kr. Paul, I. Miyake, Y. Takanishi, K. Ishikawa and H. Takezoe
J. Material Chemistry 13, 2880-84, 2003, ibid 15, 4688, 2005.