List of Publications

Publications in peer reviewed Journals

Publications related to this thesis:


3. Entropic screening preserves non-equilibrium nature of nematic phase while
   enthalpic screening destroys it.

4. Screening out the non-Arrhenius behaviour of nematic-isotropic transition by
   room temperature ionic liquid.
   K. Dan, A. Datta, Y. Yoshida, G. Saito, K. Yoshikawa and M. Roy *Journal of

5. Infrared Spectroscopy of Mixtures involving Liquid Crystals: “Screening” to “Complex formation”.
K. Dan and A. Datta, in press *Advanced Science Letters*.

**In peer-reviewed conference proceedings:**

1. Role of amphiphilic molecule on liquid crystal phases.

2. Detection of a new ’nematic-like’ phase in liquid crystal-amphiphile mixture by differential scanning calorimetry.


4. One-step Facile Synthesis of Noble Metal Nanocrystals with tunable morphology in a Nematic Liquid Crystalline Medium.
   K. Dan, B. Satpati and A. Datta, Accepted in *AIP Conf. Proc.*

**Communicated Papers:**

   K. Dan, B. Satpati and A. Datta, Submitted to *Acta Materialia.*