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Expertise

Condensed Matter Physics

Working on theoretical soft matter physics using the tool of statistical mechanics and computer simulations.

Work experience

1. Magadh University 2017 — Present

Assistant Professor

Gaya

Education

1. Ph.D. - 2014

University of Kalyani

Publication

1. Freedericksz transition in ferronematic liquid crystal under weak anchoring conditions

Lahiri T.;Pushkar S.K.;Poddar P.
Physica Scripta, Volume 96, Year 2021

2. Theoretical study on the effect of electric field for carbon nanotubes dispersed in nematic liquid crystal

T. Lahiri and S.K. Pushkar and P. Poddar
Physica B: Condensed Matter, Volume 588, Year 2020

3. Effect of polymer network in polymer dispersed ferroelectric liquid crystals (PSFLC)

Pal Majumder, Tapas;Lahiri, Tanmoy;Mukherjee, Prabir Kumar
Liquid Crystalline Polymers: Volume 2-Processing and Applications, Volume , Year 2015, Pages 133-167

4. Poisson-Boltzmann equation and electro-convective instability in ferroelectric liquid crystals: A mean-field approach

Lahiri, T.;Pal Majumder, T.;Ghosh, N. K.
Physica Scripta, Volume 89, Year 2014

5. Statistical theory of flexoelectric effect in ferroelectric liquid crystals

Lahiri, T.;Pal Majumder, T.
Journal of Non-Crystalline Solids, Volume 370, Year 2013, Pages 44-51

6. Theory of nanoparticles doped in ferroelectric liquid crystals

Lahiri, T.;Pal Majumder, T.;Ghosh, N. K.
Journal of Applied Physics, Volume 113, Year 2013

7. Erratum: Theoretical investigation of helix distortion and dielectric spectrum of antiferroelectric liquid crystals (Physica B (2011) 406 (1577-1581))

Das D.;Lahiri T.;Pal Majumder T.
Physica B: Condensed Matter, Volume 414, Year 2013, Pages 119

8. The effect of cross-linked chains of polymer network on the memory states of polymer stabilized ferroelectric molecules

Lahiri, T.;Majumder, T. Pal
Polymer, Volume 53, Year 2012, Pages 2121-2127

9. Theory of ion-chirality relation in ferroelectric liquid crystals

Lahiri, T.;Majumder, T. Pal
EPL, Volume 98, Year 2012

10. Theoretical investigation of antiferroelectric (SmCA) subphases by hydrodynamical approach

Lahiri T.;Pal Majumder T.
Physica B: Condensed Matter, Volume 406, Year 2011, Pages 4417-4422

11. Theoretical investigation of helix distortion and dielectric spectrum of antiferroelectric liquid crystals

Das, Deblal;Lahiri, Tanmoy;Majumder, Tapas Pal
Physica B: Condensed Matter, Volume 406, Year 2011, Pages 1577-1581

12. Theoretical approach to study the effect of free volumes on the physical behavior of polymer stabilized ferroelectric liquid crystal molecules

Lahiri, T.;Majumder, T. Pal
Journal of Applied Physics, Volume 109, Year 2011