

LIST OF PUBLICATIONS

1. X-ray Diffraction and Optical Studies of an Schiff's Base Liquid Crystal
P. Mandal, **M. Mitra**, S. Paul and R. Paul, *Liquid Crystals*, **2**, 183, 1987.
2. Orientational Order Parameters of (-)-2-Methylbutyl p-(N-(p-Methoxybenzylidene) Amino) Cinnamate in Smectic B Phase from X-ray Diffraction Measurements
M. Mitra, K. Bhattacharjee, S. Paul and R. Paul, *Phase Transitions*, **9**, 337, 1987.
3. Order parameters From Magnetic Susceptibility Measurements on some Nematogens
M. Mitra and R. Paul, *Mol. Cryst. Liq. Cryst.*, **148**, 185, 1987.
4. Optical Birefringence and Order Parameter of Three Nematogens
M. Mitra, S. Paul and R. Paul, *PRAMANA – J. Phys.*, **29**, 409, 1987.
5. Nematic Order of APAPA from X-ray Diffraction and Optical Studies
M. Mitra, K. Bhattacharjee, R. Paul and S. Paul, *Mol. Cryst. Liq. Cryst.*, **149**, 203, 1988.
6. Anomalous Density and Refractive Index Variation of a Nematic Liquid Crystal
M. Mitra, S. Paul and R. Paul, *Liquid Crystals*, **3**, 123, 1988.
7. Mesomorphic Properties and Molecular Structure of Four Closely Related Compounds
M. Mitra, R. Paul and S. Paul, *Mol. Cryst. Liq. Cryst.*, **177**, 71, 1989.
8. Optical Birefringence Studies on the Mesophase of CBOOA
M. Mitra, S. Gupta, R. Paul and S. Paul, *Ind. J. Phys.*, **63A**, 813, 1989.
9. Magnetic and Optical Properties of 5OCB
M. Mitra, R. Paul and S. Paul, *Acta Physica Polonica*, **A78**, 453, 1990.
10. Molecular Polarizabilities and Order Parameters of Schiff's Base Compounds
M. Mitra, B. Majumder, S. Gupta, R. Paul and S. Paul, *Mol. Cryst. Liq. Cryst.*, **180B**, 187, 1990.
11. Molecular Polarizabilities and Orientational Ordering of Two Mesogens
M. Mitra, S. Paul and R. Paul, *Z. Naturforsch.*, **44a**, 858, 1991.
12. Orientational Ordering From Molecular Polarizabilities and Odd-Even Effect in nCB Homologous Series
M. Mitra, *Phase Transitions*, **37**, 131, 1992.
13. Orientational Ordering of a Nematogen From X-ray Diffraction Studies
A. Seal, **M. Mitra**, S. Paul and R. Paul, *Mol. Cryst. Liq. Cryst.*, **225**, 355, 1993.
14. Nematic Ordering in nOCB Series From Molecular Polarizabilities

- M. Mitra, *Mol. Cryst. Liq. Cryst.*, 241, 17, 1994.**
15. Dielectric Relaxation and Rotational Viscosity of a Ferroelectric Liquid Crystal Mixture
T. Pal Majumder, **M. Mitra** and S. K. Roy, *Phys. Rev.*, **50**, 4796, 1994.
 16. Dielectric Studies for Dipole-Dipole Association of Mesogenic Molecules in Para-xylene
Tapas Pal Majumder, Subir K. Roy and **Mukul Mitra, *Mol. Cryst. Liq. Cryst.*, 261, 41, 1995.**
 17. Dielectric Properties of a Ferroelectric Liquid Crystal Mixture under Bia Electric Field
Tapas Pal Majumder, Susanta Sinha Roy, Subir K. Roy and **Mukul Mitra, *Mol. Cryst. Liq. Cryst.*, 265, 577, 1995.**
 18. Phase Behavior and Birefringence Studies of a Liquid Crystal Binary Mixture
M. Mitra, S. S. Roy, T. Pal Majumder and S. K. Roy, *Mol. Cryst. Liq. Cryst.*, **301**, 363, 1997.
 19. Neutron Scattering Studies on Reentrant Nematic Phase
M. Mitra, S. K. Paranjpe and K. Usha Deniz, *Mol. Cryst. Liq. Cryst.*, **303**, 103, 1997.
 20. The Coil-Helix Transition in the Ternary System Poly (-benzyl L-glutamate)/ Dichloroacetic acid/Dichloroethane
Mukul Mitra, Toshihiro Hiejima and Akihiro Abe, *Proceedings of the Seminar of Japanese Polymer Society, Nagoya*, **46**, No. 11, p.2787, October 1-3, 1997.
 21. Phase Transitions in Polypeptide Liquid Crystals : Helix-coil Transition and Molecular Weight Dependence
Mukul Mitra, Toshihiro Hiejima and Akihiro Abe, *Preprints of 5th. Pacific Polymer Conference*, Kyongju, Korea, p-470, October 26-30, 1997.
 22. The Polyoxyethylene Chain – on the Origin of its Conformational Flexibility
A. Abe, H. Furuya, **M. K. Mitra** and T. Hiejima, *Computational and Theoretical Polymer Sc.*, **8**, 253, 1998.
 23. Helix-coil Transition of poly (-benzyl L-glutamate) in a Mixed Solvent Comprising DCE and DCA
Mukul Mitra, Toshihiro Hiejima and Akihiro Abe, *Proceedings of International Workshop on Structural Biology, Tokyo*, Japan, March 5-6, 1998.
 24. The Polyoxyethylene Chain – on the Origin of its Conformational Flexibility
Akihiro Abe, Hidemine Furuya, **Mukul K. Mitra** and Toshihiro Hiejima, *Proceedings of the 37th International Symposium on Macromolecules, Gold Coast*, Australia, July 13-17, 1988.