

APPENDIX A

LIST OF SELECTED BOOKS AND MONOGRAPHS ON LIQUID CRYSTALS

1. *Molecular Structure and Physical Properties of Liquid Crystals*, (Eds.) G. W. Gray, Academic Press (AP), 1962.
2. *The Physics of Liquid Crystals*, (Eds.) P. G. de Gennes, OUP London, 1974.
3. *Liquid Crystals & Plastic Crystals Vols 1 and 2*. Ed. G. W. Gray and P. A. Winsor, Ellis Horwood Ltd., 1974.
4. *Introduction to Liquid Crystals*. Ed. E. B. Priestley, P. J. Wojtowicz and P. Sheng, Plenum Press, 1975.
5. *Applications of Liquid Crystals*. Ed. G. Meier, E. Sackmann and J. G. Grabmaier, Springer Verlag, 1975.
6. *Liquid Crystals*, (Eds.) S. Chandrasekhar, CUP 1977.
7. *Liquid Crystals*. Solid State Physics Suppl. 14, (Ed.) L. Liebert, AP, 1978.
8. *Textures of Liquid Crystals*, (Ed.) D. Demus and L. Richter, Verlag Chemie, 1978.
9. *The Molecular Physics of Liquid Crystals*, (Eds.) G. R. Lukhurst and G. W. Gray, AP, NY, 1979.
10. *Liquid Crystals and Biological Structure*, (Ed.) G. H. Brown and J. J. Wolken, AP 1979.
11. *Liquid Crystals*, Proceedings of the International Conference held at Bangalore, in 1979, (Ed.) S. Chandrasekhar, HEYDEN, London (1980).
12. *Handbook of Liquid Crystals*, (Ed.) H. Kelker and R. Hatz, Verlag Chemie, 1980.
13. *Physical Properties of Liquid Crystalline Materials*, (Ed.) W. H. de Jeu, Gordon and Breach Science Publishers, 1980.
14. *Polymeric Liquid Crystals*, (Ed.) A. Ciferri, W. R. Krigbaum and Robert B. Meyer, AP, 1982.
15. *Advances in Liquid Crystals* Vol. 1-6, Ed. Glenn H. Brown, AP 1978-1983.
16. *Smectic Liquid Crystals*, (Ed.) G. W. Gray and J. W. Goodby, Glasgow, Leonard Hill, 1984.
17. *Thermotropic liquid crystals*, (Ed.) G. W. Gray, Wiley, Chichester, 1987.
18. *Thermotropic Liquid Crystals*, Fundamentals. (Ed.) G. Vertogen and W. H. de Jeu, Springer-Verlag 1988.
19. *Structure of Liquid Crystal Phases*, Lecture Notes in Physics - Vol. 23, (Ed.) P. S. Pershan World Scientific 1988.
20. *Liquid Crystals: Nature's Delicate Phase of Matter* (Eds.) P. J. Collings, (Princeton Press, Princeton, 1990.
21. *Liquid Crystals Application and Uses*, Vol. 1-3. (Ed.) B. Bahadur, World Scientific, 1990-92.

22. *Thermophysical Properties of Liquid Crystals*, (Ed.) A. L. Tsykalo, Gordon and Breach Science Publishers, 1991.
23. *Ferroelectric Liquid Crystals: Principles, Properties and applications*, (Eds.), J. W. Goodby, R. Blinc, N. A. Clark, S. T. Lagerwall, M. A. Osipov, S. A. Pikin, T. Sakurai, K. Yoshino and B. Zeks, Gordon & Breach, Philadelphia, 1991.
24. *Liquid Crystals, Second edn.*, (Eds.) S. Chandrasekhar, Cambridge University Press, 1992.
25. *The Physics of Liquid Crystals*. 2nd ed., (Ed.) P. G. de Gennes and J. Prost, OUP (Clarendon) London, 1993.
26. *Liquid Crystals in the Nineties and Beyond*, (Ed.) S. Kumar, World Scientific, 1995.
27. *The Surface Physics of Liquid Crystals*. (Ed.) A. A. Sonin, Gordon and Breach Science Publishers, 1995.
28. *Introduction to Liquid Crystals Chemistry and Physics*. (Eds.) P. J. Collings and M. Hird, Taylor & Francis, 1997.
29. *The Optics of Thermotropic Liquid Crystals*, (Ed.) S. Elston and R. Sambles, Taylor & Francis, 1998.
30. *Handbook of Liquid Crystals*. Vol. 1 "Fundamentals", 2A "Low Molecular Weight Liquid Crystals I", 2B "Low Molecular Weight Liquid Crystals II", 3 "High Molecular Weight Liquid Crystals", (Ed.) D. Demus, J. Goodby, G. W. Gray, H.-W. Spiess and V. Vill, WILEY-VCH, Verlag GmbH, Weinheim, FRG, 1998.
31. *Ferroelectric and antiferroelectric Liquid Crystals*, (Eds.) S.T. Lagerwall, Weinheim, Wiley-VCH, 1999.
32. *The Physics of Ferroelectric and Antiferroelectric Liquid Crystals*,(Eds.) I. Musevic, R. Blinc and B. Zeks, Singapore, (World Scientific, Singapore 2000).
33. *Physical properties of liquid crystals*, Eds. D. A. Dunmur, A. Fukuda and G. R. Luckhurst, INSPEC, London, 2001.
34. *Principles and Applications of Ferroelectric and Related Materials*,(Ed.) M.E. Lines and A.M. Glass, Oxford University Press: Oxford, 2001.
35. *Textures of liquid crystals*, (Eds.) I. Dierking, WILEY-VCH, GmbH & Co. KGaA, 2003.
36. *Relaxation phenomena – Liquid crystals, magnetic systems, polymers, high-TC superconductors, metallic glasses*, (Eds.) W. Haase and S. Wrobel, (Springer-Verlag, Berlin-Heidelberg), 2003.
37. *Crystals That Flow: Classic Papers from the History of Liquid Crystals*, (Ed.) T. J. Sluckin, D. A. Dunmur and H. Stegemeyer, 2004.

APPENDIX B

LIST OF PUBLICATIONS

1. X-ray diffraction and optical birefringence studies on four nematogenic difluorobenzene derivatives, S. Biswas, **S. Haldar**, P. K. Mandal and W. Haase, *Liquid Crystals*, Vol. 34, No. 3, P. 365 – 372, March **2007**.
2. Crystal structure of a polar nematogen 4-(trans-4-undecylcyclohexyl) isothiocyanatobenzene, S. Biswas, **S. Haldar**, P. K. Mandal, K. Goubitz, H. Schenk and R. Dabrowski, *Crystal Research and Technology*, Vol. 42, No.10, P. 1029 - 1035, June **2007**.
3. X-Ray Structural Analysis in the Crystalline Phase of a Nematogenic Fluoro-Phenyl Compound, **S. Haldar**, S. Biswas, P. K. Mandal, K. Goubitz, H. Schenk and W. Haase, *Molecular Crystals and Liquid Crystals*, Vol. 490, P. 80-87, January **2008**.
4. X-ray studies of the crystalline and nematic phases of 4'-(3, 4, 5 – trifluoro- phenyl) – 4 – Propylbicyclohexyl, **S. Haldar**, P. K. Mandal, S. J. Prathap, T. N. Guru Row and W. Haase, *Liquid Crystals*, Vol. 35, No.11, P. 1307-1312, November **2008**.
5. Novel synthetic route to liquid crystalline 4, 4'-bis (n-alkoxy) azoxybenzenes: spectral characterisation, mesogenic behaviour and crystal structure of two new members, P. Das, A. Biswas, A. Choudhury, P. Bandyopadhyay, **S. Haldar**, P. Mandal and S. Upreti, *Liquid Crystals*, Vol. 35, No. 5, P. 541-548. May **2008**. (Not presented in the thesis)
6. Induction and enhancement of ferroelectric SmecticC^{*} phase in Multi-Component room Temperature Mixtures, P.K. Mandal, **S. Haldar**, A. Lapanik and W. Haase, *Japanese Journal of Applied Physics*, 48, P. 011501-1-011501-6, January **2009**.
7. Structural analysis by X-ray diffraction of a polar mesogen 4-cyanobiphenyl-4'-heptylbiphenyl carboxylate, **S. Haldar**, P.K. Mandal, S. J. Prathap, T. N. Guru Row and R. Dabrowski, *Molecular Crystals and Liquid Crystals*, Vol. 503, P. 99–111, June **2009**.

8. Influence of molecular core structure and chain length on physical properties of nematogenic fluorobenzene derivatives, **S. Haldar**, S. Barman, P. K. Mandal, W. Haase and R. Dabrowski, *Molecular Crystals and Liquid Crystals*, Vol. 528, P. 79-93, October **2010**.
9. Smectic layer spacing, average intermolecular distance and spontaneous polarization of room temperature FLC mixtures, **S. Haldar**, D. Sinha, D. Goswami, P. K. Mandal, K.C. Dey and A. Lapanik, *Molecular Crystals and Liquid Crystals*, Vol. 547, P. 25-32, June **2011**.
10. X-ray diffraction and dielectric spectroscopy studies on a partially fluorinated ferroelectric liquid crystal from the family of terphenyl esters, **S. Haldar**, K.C. Dey, D. Sinha, P. K. Mandal, W. Haase and P.Kula, *Liquid Crystals*, Vol. 39, P. 1196-1203, October **2012**.
11. Effect of molecular conformation on the mesogenic properties of a partially fluorinated nematogenic copound investigated by X-ray diffraction and dielectric measurements, **S. Haldar**, D. Sinha, P. K. Mandal, K. Goubitz, H. Schenk, W. Haase
Liquid Crystals, Vol. 40, P. 689-698, February **2013**. (Not presented in the thesis)