



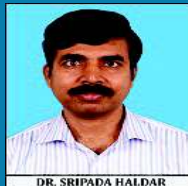
ENLIGHTENMENT TO EXCELLENCE

## UNIVERSITY OF NORTH BENGAL

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Raja Ram Mohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.

## Department of Physics

Print



## Dr. Sripada Halder

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**Subject specialization:** Electronics and Radio-Physics**Areas of Research Interest:** Liquid Crystals and Study of Equatorial Ionisation Anomaly**No. of Ph.D. students:** (a) Supervised: Nil (b) Ongoing: 02 .**No. of M.Phil. students:** (a) Supervised: Nil (b) Ongoing: Nil .**No. of Publications:** 13**Achievement & Awards:**

- M.Sc. – Rank 2
- Cleared GATE, SLET,
- Completed Two Minor Research Projects (UGC),
- Attended – 02 (International Conferences), 11 (National Conferences)

**Professional experiences:**

- UG – 5 Years
- PG – 11 Years,
- Coordinator –JEST - 2014.

**Administrative Experiences:**

- In-charge (Physics Dept., NBU) (Occasional),
- Member of Faculty council for P.G. studies in sciences
- Member for the Board of Under-Graduate studies in Physics
- Member of P.G. Board of studies in Physics

**Selective List of Publications (2007 – present):**

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**.

6. Induction and enhancement of ferroelectric SmecticC\* phase in Multi-Component room Temperature Mixtures,P.K. Mandal, **S.Haldar**, A.Lapanikand 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. Prathp, 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**.
12. Characteristics of equatorial ionization anomaly (EIA) in relation to transionospheric satellite links around the northern crest in the Indian longitude sector, A. Das, K. S. Paul, S. Halder, K. Basu, and A. Paul *Ann. Geophys.*, Vol. 32, 91–97, 2014 February 2014
13. Molecular Structure and Packing Analysis of Two Nematogenic Fluoro-Phenyl Compounds in the Crystalline Phase, Sripada Haldar, Pradip Kumar Mandal and Wolfgang Haase, *Information Systems Design and Intelligent Applications*,Proceedings of Second InternationalConference INDIA 2015, Volume 2 January 8-9 2015.