



ENLIGHTENMENT TO PERFECTION

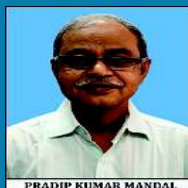
# UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.



## Department of Physics

Print



### Dr. Pradip Kumar Mandal

M.Sc., Ph.D.

Professor

**Members of Learned Societies:** Life Member, Indian Association for the Cultivation of Science, Indian and International Liquid Crystal Society

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**Subject specialization:** Condensed Matter Physics

**Areas of Research Interest:** Liquid Crystals(LC) and LC nano-composites, Crystallography, Polymer, Sensors, DSSC, OFET, Molecular modeling and simulation, Electronic band structure calculation.

**No. of PDF students:** 01

**No. of Ph.D. students:** (a) Supervised: 07 (b) Ongoing: 06 .

**No. of M.Phil. students:** (a) Supervised: Nil (b) Ongoing: Nil.

**No. of Publications:** 73

#### Achievement & Awards:

- Member, West Bengal State Council of Science and Technology
- Editorial Board member, Crystal Structure Theory and Applications (CSTA) Journal, Scientific Research Publishing Inc., Irvine, CA, USA December 26, 2012 to Dec 26, 2015.
- A very active collaboration has been established with several foreign groups like Amsterdam University, Netherlands; Military University of Technology, Warsaw, Poland; Darmstadt Institute of Technology, Germany which so far has resulted in 32 publications.
- Two projects were sanctioned by DST under Indo-German and Indo-Polish International Collaboration Schemes.
- German Ministry of Science and Technology (BMBF, DLR) sanctioned a project on Ferroelectric Liquid Crystals (2009-12).
- DST supported two projects for experiments at Deutches Elektronen Synchrotron (DESY), Hamburg, Germany
- Seven major research projects completed/ongoing funded by UGC, DST, DAE and IUC-DAEF.

#### Research publications at a glance::

- Field wise no of Publications:**

Name of the field	No of Publication
Achiral Liquid Crystals	35
Ferroelectric LCs	10
Crystallography of LCs	19
LC-nano composites	1
Polymer	3
DSSC	3
Band structure calc	2
T O T A L	73

- Journal wise no of Publications:**

Journal Name	No of Publication
Molecular Crystals & Liquid Crystals	28
Liquid Crystals	11
Phase Transitions	8
SPIE	2
Physical Review Letters	1
Physical Review Phocus	1
Scientific American	1
Acta Crystallographica E	2
Crystal Research & Technology	1
Japanese J of Applied Physics	1
Applied Physics Letters	1
Journal of Molecular Liquids	1
Physica B	1
Opto-Electronic Review	1
DAE SSP Symposium Proceedings	2
Nepal J. Science & Technology	1
Research J. of Chemical Sciences	1
Applied Solar Energy	1
AIP Conference proceedings	1
J Physics & Chemistry of solids	1
Material Science in Semicon. Processing	1
J of Applied Physics	1
J of Alloys & compounds	1
DST Project Report	1
DESY Photon Science Annual Report	1

**Selective List of Publications:** [Click here to view the list](#)