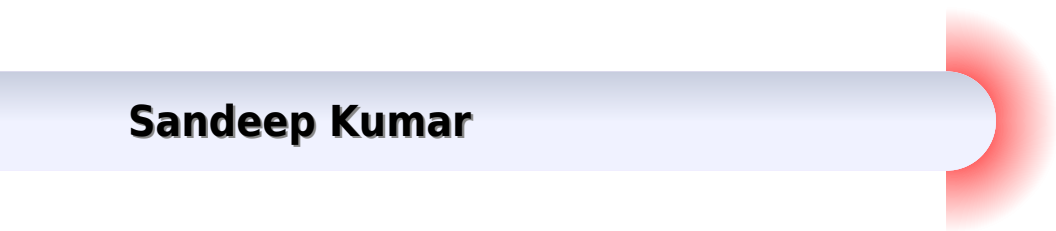


# Mesophase Formation in Discotic Liquid Crystalline Polymers

PHILIP KUMAR

# Mesophase Formation In Discotic Liquid Crystalline Polymers

**Sandeep Kumar**



## **Mesophase Formation In Discotic Liquid Crystalline Polymers:**

*Mesophase Formation in Discotic Liquid Crystalline Polymers* P. H. J. Kouwer, 2002-01-01      *Liquid Crystalline and Mesomorphic Polymers* Valery P. Shibaev, Lui Lam, 2012-12-06 Among the various new directions in modern polymer science the design and investigation of liquid crystal LC polymers have been the ones growing most actively and fruitfully In spite of that the possible formation of an anisotropic LC phase was only demonstrated theoretically for the first time in the 1950s by Onsager 1 and Flory 2 and then experimentally verified in the studies with polypeptides solutions In essence the studies of these LC lyotropic systems did not deviate from the theme of purely academic interest It was at the beginning of the 1970s that the experimental explosion occurred when aromatic polyamides were synthesized and their ability to form LC solutions in certain very aggressive solvents was discovered The search for practical applications of such LC systems was crowned with the successful creation of the new generation of ultrastrong high modulus thermally stable fibers such as the Kevlar due to the high degree of order of the macromolecules in the anisotropic LC state In fact these investigations coincided with the swift emergence on the practical scene of thermotropic low molar mass liquid crystals with the use of these materials in microelectronics and electro optics figures and letters indicators displays in personal computers and flat TV etc Polymer scientists also began to develop methods of synthesizing thermotropic LC polymers by incorporating mesogenic fragments in the main chain LC polymers or side branchings of the macromolecules side chain or comb shaped polymers      **Liquid Crystalline Polymers** Vijay Kumar Thakur, Michael R. Kessler, 2015-11-16 This book introduces anisotropic innovations in liquid crystalline polymers as well as new nanocomposite materials and testing techniques The authors detail the newest discoveries of material properties material types and phases and material characterization This interdisciplinary work creates valuable links that strengthen the approach to the evolving field of liquid crystalline polymers materials

**Chemistry of Discotic Liquid Crystals** Sandeep Kumar, 2016-04-19 The self contained properties of discotic liquid crystals DLCs render them powerful functional materials for many semiconducting device applications and models for energy and charge migration in self organized dynamic functional soft materials The past three decades have seen tremendous interest in this area fueled primarily by the possibility      **Liquid Crystalline Semiconductors** Richard J. Bushby, Stephen M. Kelly, Mary O'Neill, 2012-11-28 This is an exciting stage in the development of organic electronics It is no longer an area of purely academic interest as increasingly real applications are being developed some of which are beginning to come on stream Areas that have already been commercially developed or which are under intensive development include organic light emitting diodes for flat panel displays and solid state lighting organic photovoltaic cells organic thin film transistors for smart tags and flat panel displays and sensors Within the family of organic electronic materials liquid crystals are relative newcomers The first electronically conducting liquid crystals were reported in 1988 but already a substantial literature has developed The advantage of liquid crystalline semiconductors is that they have the easy processability of amorphous and

polymeric semiconductors but they usually have higher charge carrier mobilities Their mobilities do not reach the levels seen in crystalline organics but they circumvent all of the difficult issues of controlling crystal growth and morphology Liquid crystals self organise they can be aligned by fields and surface forces and because of their fluid nature defects in liquid crystal structures readily self heal With these matters in mind this is an opportune moment to bring together a volume on the subject of Liquid Crystalline Semiconductors The field is already too large to cover in a comprehensive manner so the aim has been to bring together contributions from leading researchers which cover the main areas of the chemistry synthesis and structure function relationships physics charge transport mechanisms and optical properties and potential applications in photovoltaics organic light emitting diodes OLEDs and organic field effect transistors OFETs This book will provide a useful introduction to the field for those in both industry and academia and it is hoped that it will help to stimulate future developments

**Liquid Crystal Polymers** D. Coates, 2000 Liquid crystal polymers LCPs have a wide range of uses from strong engineering plastics to delicate gels for use in liquid crystal LC displays For this reason it is essential reading for materials scientists engineers or technologists in industry as well as research laboratories or academia An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading

Side Chain Liquid Crystal Polymers C.B. McArdle, 1990-04-30 *Macromolecular Design of Polymeric Materials* Hatada, 1997-01-02 Providing a range of information on polymers and polymerization techniques this text covers the gamut of polymer science from synthesis structure and properties to function and applications It analyzes speciality polymers including acrylics fluoropolymers polysilanes polyphosphazenes and inorganic and conducting polymers The book examines the stereochemistry of polymerization and the stereoregularity of polymers

**Reflexive Polymers and Hydrogels** Nobuhiko Yui, Randall J. Mersny, Kinam Park, 2004-03-17 Despite their capacity to carry out functions that previously were unobtainable smart polymers and hydrogels tend to have painfully slow response times On the other hand biological systems go through phase changes at an extremely fast rate Reflexive Polymers and Hydrogels examines the natural systems that respond almost instantaneously to environmental stimuli and thus gives the reader an understanding of the mechanisms that govern these responses The book includes chapters on approaches and procedures for designing a synthetic flash system based on naturally occurring systems It also deals with some of the promising potential applications of flash systems in industry

Structure And Transport Properties In Organized Polymeric Materials Emo Chiellini, Marco Giordano, Dino Leporini, 1998-03-19 This multi authored book includes selected contributions reviewing the results achieved in the synthesis and characterization of organized polymeric materials The focus is on competitive materials with liquid crystalline or electroconductive properties The fine tuning of the properties offered by advanced chemical synthesis has been investigated by a large number of state of the art techniques including both microscopic ESR NMR dielectrometry fluorescence IR Raman spectroscopy and macroscopic calorimetric mechanical methodologies The book also provides an updated coverage of the

most challenging applications of organized polymers as functional materials in the fields of electrooptical devices information retrieval and organic electroconductors

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