

Liquid Crystalline Semiconductors Materials Properties And Applications Springer Series In Materials Science

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Liquid Crystalline Semiconductors Materials Properties

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 Crystalline Semiconductors - Materials, properties ...

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.

Liquid Crystalline Semiconductors: Materials, properties ...

Liquid crystalline materials are good candidates for OFETs because of their advantageous properties over soluble small-molecule materials. Liquid crystalline materials show good solution...

Liquid crystalline organic semiconductors for organic ...

Thiophene-containing liquid crystalline (LC) semiconductors perform a high degree of π -delocalization and optical tunability due to the combination of their intermolecular well-ordered morphology and unique electronic structure, which is an essential requirement for applications involving optoelectronic and photonic devices [, , , ,]. In addition, such materials usually show good charge ...

2-Phenylbenzothiophene-based liquid crystalline semiconductors

A new series of liquid crystalline conjugated oligomers, namely laterally and terminally alkyl-substituted derivatives of oligo(1,4-phenyleneethynylene)s, were synthesized, and the relationships between the molecular structures and the mesomorphic properties were investigated. The mesomorphic properties of the oligomer derivatives were examined by differential scanning calorimetry and ...

Liquid crystalline conjugated oligomers: synthesis and ...

The properties of liquid crystals and how these materials are used in modern display technologies The presence of defects in all crystals at equilibrium How defects impact numerous properties of materials—from the conductivity of semiconductors to the strength of structural materials

Structure of Materials, Part 3: Liquid Crystals, Defects ...

The high degree of molecular order, the possibility for large scale orientation, and the structural motif of the aromatic subunits recommend liquid-crystalline materials as organic semiconductors, which are solvent-processable and can easily be deposited on a substrate.

Liquid-Crystalline Ordering as a Concept in Materials ...

Shinji Fujimoto, in Passivation of Metals and Semiconductors, and Properties of Thin Oxide Layers, 2006. Abstract. Semiconductor properties of passive films formed on the Fe-18Cr alloy in a borate buffer solution (pH=8.4) and a 0.1 M H₂SO₄ solution were examined using photoelectrochemical response and electrochemical impedance spectroscopy. Typical an n-type semiconductor behaviour is ...

Semiconductor Property - an overview | ScienceDirect Topics

Molecular structure and properties of liquid crystals, London-New York 1962. The physical properties of molecular substances Molecules are made of fixed numbers of atoms joined together by covalent bonds, and can range from the very small (even down to single atoms, as in the noble gases) to the very large (as in polymers, proteins or even DNA).

MOLECULAR STRUCTURE AND PROPERTIES OF LIQUID CRYSTALS

Schlieren texture of liquid crystal nematic phase. Liquid crystals (LCs) are a state of matter which has properties between those of conventional liquids and those of solid crystals. For instance, a liquid crystal may flow like a liquid, but its molecules may be oriented in a crystal-like way. There are many different types of liquid-crystal phases, which can be distinguished by their different optical properties (such as textures).

Liquid crystal - Wikipedia

Calamitic liquid crystalline organic semiconductors based on an electron-deficient dibenzo[c,h][2,6]naphthyridine (DBN) core were designed for electron transport materials and synthesized from 6-bromoisatin to form a key intermediate without tedious purification by means of a one-pot reaction including 4 steps, and then the target products were obtained in an additional 3 steps in a total yield of 13%.

Novel calamitic liquid crystalline organic semiconductors ...

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.

Liquid Crystalline Semiconductors | SpringerLink

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'.

Liquid crystalline semiconductors : materials, properties ...

Køb Liquid Crystalline Semiconductors som e-bog på engelsk til markedets laveste pris og få den straks på mail. Liquid Crystals [LCs] are synthetic functional materials par excellence and are to be found in many ..

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Polyvinylidene fluoride (PVDF) is a piezo-polymer which among its crystalline phases, the β -phase has been researched for the improvement of piezoelectric properties. In this study, to improve the β -phase contents and thereby the piezoelectric response of the polymer, the effect of adding self-synthesized ionic liquid surfactant (ILS ...

Enhancement of β -Phase Crystalline Structure and ...

Read "Liquid Crystalline Semiconductors Materials, properties and applications" by available from Rakuten Kobo. Liquid Crystals [LCs] are synthetic functional materials par excellence and are to be found in many types of LCDs; LCs s...

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DH4T thus forms a 2-dimensional (2D) semiconductor with a liquid crystal-like structural organization. DH4T can be deposited as active semiconducting layer in thin-film transistors, either by vacuum evaporation or by spin coating on an octylsilane-pretreated surface.

Dihexylquaterthiophene, A Two-Dimensional Liquid Crystal ...

Optical Properties of Crystalline and Amorphous Semiconductors: Materials and Fundamental Principles presents an introduction to the fundamental optical properties of semiconductors. This book presents tutorial articles in the categories of materials and fundamental principles (Chapter 1), optical properties in the reststrahlen region (Chapter 2), those in the interband transition region ...

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