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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.

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Liquid Crystalline Semiconductors: Materials, properties and applications (Springer Series in Materials Science) [Richard J. Bushby, Stephen M. Kelly, Mary O'Neill] on Amazon.com. *FREE* shipping on qualifying offers. 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

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Crystalline Semiconductors: Materials, properties ...

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 ...

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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 [, , , ,].

2-Phenylbenzothiophene-based liquid crystalline semiconductors

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 ...

A solution-liquid-solid mechanism for the growth of InP, InAs, and GaAs is described that uses simple, low-temperature ($\leq 203^\circ\text{C}$), solution-phase

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reactions. The materials are produced as polycrystalline fibers or near-single-crystal whiskers having widths of 10 to 150 nanometers and lengths of up...

[PDF] Solution-Liquid-Solid Growth of Crystalline III-V ...

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

Properties. A unique class of partially crystalline aromatic polyesters based on p-hydroxybenzoic acid and related monomers, liquid-crystal polymers are capable of forming regions of highly

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ordered structure while in the liquid phase. However, the degree of order is somewhat less than that of a regular solid crystal.

Liquid-crystal polymer - Wikipedia

Semiconductors are materials with tunable electrical conductivity. Semiconductors are an engineering marvel — hardly any semiconductor is useful in its natural form. Numerous growth, processing and finishing steps convert the raw material to the carefully-designed functional device with the targeted electrical and optical properties.

Materials Science and Engineering: Semiconductors ...

ABSTRACT: Defect Structures and Properties of Liquid Crystalline Polymer Semiconductors, DMR-0802655, Prof. David C. Martin, The University of Michigan, Department of Materials Science and Engineering. TECHNICAL SUMMARY Polymer and organic

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molecular semiconductors are of considerable interest for creating inexpensive electronic devices ...

NSF Award Search: Award#0802655 - Defect Structures and ...

We explore the molecular nature of doping in organic semiconductors (OSCs) by employing a liquid crystalline organic semiconductor based on phenyl naphthalene as a model. The mesophase nature of composites that include a charge transfer complex (CTC) between the OSC (8-PNP-O12) and an electron acceptor (F4TC

Molecular p-doping in organic liquid crystalline ...

Composition and physical properties of amorphous bulk and thin film materials in the system Ge Se Te As R.E Loehman, A.J Armstrong, D.W Firestone, R.W Gould Pages 72-77

Journal of Non-Crystalline Solids | Amorphous and Liquid ...

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J. Ma and Q. Li, "Smectic Liquid Crystal Semiconductors", Chapter 5 in Self-Organized Organic Semiconductors: From Materials to Applications (Ed: Q. Li), John Wiley & Sons, 2011. L. Jin and Q. Li, "Self-Organized Fullerene Based Organic Semiconductors", Chapter 7 in Self-Organized Organic Semiconductors: From Materials to Device Application (Ed ...

biography - Liquid Crystal Institute

Lead halide perovskites have been demonstrated as high performance materials in solar cells and light-emitting devices. These materials are characterized by coherent band transport expected from crystalline semiconductors, but dielectric responses and phonon dynamics typical of liquids. This "crystal-liquid" duality implies that lead halide perovskites belong to phonon glass electron crystals.

Colloquium - Xiaoyang Zhu (Columbia University) Crystal ...

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Semiconductors are a group of materials having electrical conductivities intermediate between metals and insulators. It is significant that the conductivity of these materials can be varied over orders of magnitude by changes in temperature, optical excitation, and impurity content.

Chapter 1 Crystal Properties and Growth of 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.

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