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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

FOCUS REVIEW Liquid crystalline organic semiconductors for organic transistor applications Hiroaki Iino and Jun-ichi Hanna The recent development of materials for organic field effect transistors (OFETs), including small-molecule and polymer materials,

Liquid crystalline organic semiconductors for organic

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Liquid Crystalline Semiconductors Materials Properties And

A new solution-processable and air-stable liquid-crystalline n-channel organic semiconductor (2,2'-bis(2,8-bis(5-(2-octyldodecyl)thiophen-2-yl)indeno[1,2-b]fluorene-6,12-diylidene)dimalononitrile, I^{\pm} , 2OD-TIFDMT) with donor-acceptor-donor (D-A-D) π conjugation has been designed, synthesized, and fully characterized. The new semiconductor exhibits a low LUMO energy (~ 4.19 eV) and a narrow optical bandgap (1.35 eV).

A Solution-Processable Liquid-Crystalline Semiconductor

We report the synthesis and characterization of a non-liquid crystalline material, 2-phenylchrysene (Ph-CHR), and a liquid crystalline material, 2-(4-dodecyl phenyl)chrysene (C12-Ph-CHR), and discuss their organic thin-film transistor (OTFT) device performances.

A chrysene-based liquid crystalline semiconductor for

Chitin nanocrystals have been used as a liquid crystalline template to fabricate layered oxide semiconductor aerogels. Anisotropic chitin liquid crystals are transformed to sponge-like aerogels by hydrothermally cross-linked gelation and lyophilization-induced solidification.

Chitin Liquid-Crystal-Templated Oxide Semiconductor

Proper structural design leads to a novel class of liquid crystalline organic semiconductors based on

2,5-bis-[2-(4-pentylphenyl)vinyl]-thieno(3,2-b)thiophene and 2,5-bis-[2-(4-pentylphenyl)vinyl]-(2,2'-bithiophene).

Novel High-Performance Liquid-Crystalline Organic

- crystalline - small band gap materials - semiconducting - covalently bonded (mainly) ... 1.5. Growth of pure semiconductor crystals Semiconductors can be grown as single crystals with high quality (dislocation densities as ... Liquid Phase Epitaxy (LPE)

1. Basic characteristics of semiconductors - TUT

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Liquid Crystalline Semiconductors Materials Properties And

In contrast to solid-state organic semiconductors, superstructures can be constructed in liquid-crystalline (LC) phases, using chirality, hybridization with nanofibers, and nanosegregation. Chiral LC molecules form LC phases with helical structures.

Nanostructured liquid-crystalline semiconductors - a new

A liquid crystal display (LCD) is the most advanced kind of display, using little power in minimum space and with a light weight. Three Bond offers materials that contribute to the high productivity and

Materials for Sealing Liquid Crystal - ThreeBond

The results give insight into the understanding of the nature of the mesophase behavior of liquid-crystalline semiconductors and can aid the rational design of self-organizing molecular semiconductors.

High Performance OTFTs Fabricated Using a Calamitic Liquid

Amorphous and Liquid Semiconductors ... Introductory talk; Conduction in non-crystalline materials. N.F. Mott. Pages 1-18 Download PDF. Article preview. ... select article Is there an intimate relation between amorphous and crystalline semiconductors? Research article Full text access

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