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# Liquid Crystalline Semiconductors Materials Properties And Applications

**liquid crystalline organic semiconductors for organic ...** - 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, **please inquire for pricing and availability of listed ...** - liquid crystalline semiconductors,<sup>12</sup> discotic ones have been developed.<sup>13</sup> the discotic liquid crystalline semiconductors demonstrate efficient carrier mobility along with the columnar direction of the stacked molecules, therefore, they can be used as materials for organic photovoltaics (opvs).<sup>14</sup> **liquid crystalline semiconductors materials properties and ...** - liquid crystalline semiconductors materials properties and applications springer series in materials science keywords: download books liquid crystalline semiconductors materials properties and applications springer series in materials science , download books liquid crystalline semiconductors materials properties and applications springer ... **solution-liquid-solid growth of crystalline iii-v ...** - solution-liquid-solid growth of crystalline iii-v semiconductors: an analogy to vapor-liquid-solid growth timothy j. trentler, kathleen m. hickman, subhash c. goel, ann m. viano, patrick c. gibbons, william e. buhro\* until now, micrometer-scale or larger crystals of the iii-v semiconductors have not been **development of liquid-crystalline semiconductors with high ...** - carrier transport in liquid-crystal phases, design of liquid-crystalline semiconductors with high carrier mobilities, and their application to field-effect transistors are reviewed. **asolution-processable liquid-crystalline semiconductor for ...** - lution-processable, high-mobility n-channel semiconductors. in addition, the presence of both a rigid p unit and highly flexible, branched alkyl chains in asymmetric rod-like architecture may result in mesogenic (liquid-crystalline) behavior liquid-crystalline (lc) semiconductors can be quite advantageous for **liquid crystalline organic semiconductors for application ...** - unity (crystalline solids), but more than zero (isotropic liquids) and is usually about 0.7 in the liquid crystalline state. liquid crystalline mesophases formed on heating, such as that observed by reinitzer, are defined as thermotropic and those formed on the addition of solvents are referred to as lyotropic. **amorphous and liquid semiconductors - springer** - the consequences of the lack of the long-range order. semiconductors are much more changed by disorder than metals or insulators, and appear to be the most suitable materials for fundamental work. considerable exploratory work on amorphous and liquid semiconductors was done by the leningrad school since the early fifties. **liquid-crystalline semiconducting polymers with high ...** - semiconducting liquid-crystalline thieno[3,2-b]thiophene polymers, the enhancement in charge-carrier mobility achieved through highly organized morphology from processing in the mesophase, and the effects of exposure to both ambient and low-humidity air on the performance of transistor devices. relatively large crystalline domain **liquid crystals - uni-leipzig** - thermotropic lc liquid crystals are an intermediate state between ordered three-dimensional crystalline arrays and isotropic disorder. temperature solid hazy liquid clear liquid the botanist reinitzer observed 2 melting points in cholesteryl benzoate ( 1888) **temperature-independent hole mobility in field-effect ...** - temperature-independent hole mobility in field-effect transistors based on liquid-crystalline semiconductors masahiro funahashita), fapei zhangtt, and nobuyuki tamaokitti", nonmembers **influence of polymorphism on charge transport properties ...** - influence of polymorphism on charge transport properties in isomers of fluorenone-based liquid crystalline semiconductors. frédéric lincker,a,b andré-jean attias, b fabrice mathevet, \*b benoit heinrich,c bertrand donnio,\*c jean-louis fave,d patrice rannou,a and renaud demadrille\*a **single crystalline growth of a soluble organic ...** - using liquid crystal (lc) as the solvent. the direction of lc molecules in the nematic-phase is controllable by the electric field or polyimide alignment films. in previous papers, we reported that the single crystalline growth of organic semiconductors was possible using a nematic-phase lc solvent.<sup>12,13</sup> in the lc cell under the influence of an **bonding in liquid and amorphous binary semiconductor alloys** - bonding in liquid and amorphous binary semiconductor alloys 243 a similar scheme for predicting local structures for the non-crystalline state would be desirable, and, in view of the localized and even atomic nature of the parameters involved in each of the four schemes, it is apparent that they

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