

## Discotic Liquid Crystals From Dynamics To Conductivity Stand Alone Dup

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### Discotic Liquid Crystals From Dynamics

The dynamics and conductivity of the discotic liquid-crystal, hexakis(n-hexylox) triphenylene (HAT6), and charge-transfer complex that it forms with 2,4,7trinitro-9-fluorenone (TNF) are studied using quasielastic neutron-scattering (QENS) and Pulse-Radiolysis Time resolved Conductivity.

### Discotic liquid crystals: From dynamics to conductivity ...

Complex molecular dynamics of a symmetric model discotic liquid crystal revealed by broadband dielectric, thermal and neutron spectroscopy. Soft Matter 2020, 267 DOI: 10.1039/C9SM02487E. Michael P. Allen. Molecular simulation of liquid crystals. Molecular Physics 2019, 117 (18) , 2391-2417.

### Conformation, Defects, and Dynamics of a Discotic Liquid ...

of mesophases and the isotropic liquid phase are often rich in features. The nature of discotic liquid crystals is interesting at a fundamental level and technologically important. Here we present a study of the dynamics of a typical discotic liquid crystal 2,3,6,7,10,11-hexakis pentyloxy - triphenylene HPT in the isotropic phase using time domain

### Dynamics of a discotic liquid crystal in the isotropic phase

Sandeep Kumar, Design Concepts and Synthesis of Discotic Liquid Crystals, Handbook of Liquid Crystals, 10.1002/9783527671403, (1-54), (2014). Wiley Online Library Sylwia Calus, Andriy V. Kityk, Patrick Huber, Molecular ordering of the discotic liquid crystal HAT6 confined in mesoporous solids, Microporous and Mesoporous Materials, 10.1016/j.micromeso.2014.05.036, 197 , (26-32), (2014).

### Structure and Dynamics of a Discotic Liquid-Crystalline ...

The molecular dynamics of the triphenylene-based discotic liquid crystal HAT6 is investigated by broadband dielectric spectroscopy, advanced dynamical calorimetry and neutron scattering. Differential scanning calorimetry in combination with X-ray scattering reveals that HAT6 has a plastic crystalline phase a

### Complex molecular dynamics of a symmetric model discotic ...

Abstract. The dynamics and conductivity of the discotic liquid-crystal, hexakis(n-hexylox) triphenylene (HAT6), and charge-transfer complex that it forms with 2,4,7trinitro-9-fluorenone (TNF) are studied using quasielastic neutron-scattering (QENS) and Pulse-Radiolysis Time resolved Conductivity.

### Discotic liquid crystals: From dynamics to conductivity - CORE

Optically heterodyne-detected optical Kerr effect (OHD-OKE) experiments are conducted to study the orientational dynamics of a discotic liquid crystal 2,3,6,7,10,11-hexakis(pentyloxy)triphenylene ...

### Dynamics of a discotic liquid crystal in the isotropic ...

Discotic liquid crystals (DLCs) have been exploited in opto-electronic devices for their advantageous properties including long-range self-assembling, self-healing, ease of processing, solubility in a variety of organic solvents, and high charge-carrier mobilities along the stacking axis. An overview of DLCs and their charge-carrier mobilities, theoretical modeling, alignment, and device ...

### Discotic Liquid Crystals for Opto-Electronic Applications ...

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### Discotic Liquid Crystals From Dynamics To Conductivity ...

The self-assembly, the molecular dynamics, and the kinetics of structure formation are studied in dipole-functionalized hexabenzocoronene (HBC) derivatives. Dipole substitution destabilizes the columnar crystalline phase except for the dimethoxy- and

### (PDF) Self-Assembly, Molecular Dynamics, and Kinetics of ...

Discotic Liquid Crystals for Opto-Electronic Applications†,‡ Bilal R. Kaafarani\* Department of Chemistry, American University of Beirut, Beirut 1107-2020, Lebanon Received July 29, 2010. Revised Manuscript Received November 5, 2010 Discotic liquid crystals (DLCs) have been exploited in opto-electronic devices for their advanta-

### Discotic Liquid Crystals for Opto-Electronic Applications†,‡

Liquid crystals (LCs) possess anisotropic interactions because of their molecular shape. For example, molecules with a rod-like rigid core tend to align parallel to each other and form a mesophase called nematic; molecules with a disk-like rigid core form discotic phases. In both cases the rigidity is generated by different combinations

### Stochastic Rotation Dynamics for Nematic Liquid Crystals

Request PDF | Optical study of orientational dynamics of nematic discotic liquid crystals under magnetic field | The present study determined ordinary and extraordinary refractive indices of ...

### Optical study of orientational dynamics of nematic ...

A selected series of dipole functionalized triphenylene-based discotic liquid crystals (DLCs) was synthesized and investigated in a systematic way to reveal the phase behavior and molecular dynamics. The later point is of particular importance to understand the charge transport in such systems which is the k

### Multiple glassy dynamics in dipole functionalized ...

Discotic liquid crystals To cite this article: S Chandrasekhar and G S Ranganath 1990 Rep. Prog. Phys. 53 57 View the article online for updates and enhancements. Related content Defects in liquid crystals M Kleman-Liquid crystals S Chandrasekhar-The liquid-crystalline blue phases T Seideman-Recent citations Strengthening of columnar hexagonal

### Discotic liquid crystals - Institute of Physics

The ionic conductivity of an electrolyte is represented by a product of carrier density, charge (electric), and ionic mobility. The overall goal of this study was to provide an insight into the influence of lithium ion conductivity and dynamic when a continuous discotic liquid crystal (DLC) matrix of hexaazatrinaphylene-polyether, HATN-TEG-1, is doped with a small amount of polyethylene oxide ...

### Crystals | Free Full-Text | Effect of Noncovalent ...

Discotics studied by EPR : The application of EPR spectroscopy to columnar discotic liquid crystals using a novel rigid-core nitroxide spin probe (see picture) is possible. EPR spectra measured at different temperatures across three phases of hexakis( n -hexyloxy)triphenylene show a strong sensitivity to the phase composition, molecular rotational dynamics, and columnar order.

### Probing Columnar Discotic Liquid Crystals by EPR ...

Multiple glassy dynamics in dipole functionalized triphenylene-based discotic liquid crystals revealed by broadband dielectric spectroscopy and advanced calorimetry – assessment of the molecular origin Arda Yildirim, A. Bühlmeyer, S. Hayash, J. C. Haenle, K. Sentker, Christina Krause, Patrick Huber, Sabine Laschat, Andreas Schönhal published in Physical Chemistry Chemical Physics, Vol. 21 ...

### Paper of the Month - Dynamics in discotic liquid crystals ...

Some soft matter systems behave similarly and some differently. Understanding this is one of the significant challenges in the field. For example, while the splay and bend elastic constants for thermotropic and lyotropic nematic liquid crystals are similar, the twist elastic constant is nearly an order of magnitude smaller in lyotropic nematics.