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Liquid Crystals Beyond Displays Chemistry

Introducing readers to the fundamentals of LC science through the use of illustrative examples, Liquid Crystals Beyond Displays covers not only the most recent research in the myriad areas in which LCs are being utilized, but also looks ahead, addressing potential future developments. Designed for physicists, chemists, engineers, and biologists working in academia or industry, as well as graduate students specializing in LC technology, this is the first book to consider LC applications ...

Liquid Crystals Beyond Displays | Wiley Online Books

The chemistry, physics, and applications of liquid crystals beyond LCDs. Liquid Crystals (LCs) combine order and mobility on a molecular and supramolecular level. But while these remarkable states of matter are most commonly associated with visual display technologies, they have important applications for a variety of other fields as well.

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Liquid crystals (LCs) have fluidity and a long-range orientational order. These properties enable us to use LCs as display materials. Another important property is a positional order.

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The chemistry, physics, and applications of liquid crystals beyond LCDs Liquid Crystals (LCs) combine order and mobility on a molecular and supramolecular level. But while these remarkable states of matter are most commonly associated with visual display technologies, they have important applications for a variety of other fields as well.

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Most modern electronic displays are liquid crystal-based, but R & D is moving rapidly beyond into such areas as electro-optic devices, energy, molecular motors, tunable lasers, and biosensors. This unique reference guides readers to the advances and directions of liquid crystal research, helping spur continued progress in the field.

Liquid crystals beyond displays : chemistry, physics, and

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liquid crystal Substance that can exist half-way between the liquid and solid states with its molecules partly ordered. By applying a carefully controlled electric current, liquid crystals turn dark. They are used in liquid crystal displays (LCDs) to show numbers and letters, as in pocket calculators and miniature television screens.

Liquid Crystals | Encyclopedia.com

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Liquid crystal phases are generally cloudy in appearance, which means that they scatter light in much the same way as colloids such as milk. This light scattering is a consequence of fluctuating regions of non-uniformity as small groups of molecules form and disperse. The anisotropy of liquid crystals causes them to exhibit birefringence.

Liquid Crystals - Chemistry LibreTexts

Stimuli-responsive functional soft materials are of significance from both fundamental academic research and technological applications. Toward this end, liquid crystalline materials such as cholesteric liquid crystals and blue phases represent such a remarkable self-organized system which exhibit extreme sensitivity to small external stimuli.

Dr. Quan Li | Kent State University

This review is adapted from the forthcoming book *Liquid Crystals Beyond Displays: Chemistry, Physics and Applications* (Ed: Q. Li), John Wiley & Sons, 2012 About Access

Light-Driven Chiral Molecular Switches or Motors in Liquid ...

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