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Liquid crystal displays

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Rare footage of real liquid crystals

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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 ...

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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.

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Liquid crystals (LCs) are often known as electronic displays and have become ubiquitous in our daily life, apart from that, in the past 10 years, LCs have been investigated as exquisitely sensitive reporters for developing new molecular sensing and detection

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[Liquid Crystals Beyond Displays - Advanced Science News](#)

LCLCs represent a broad but not well-understood class of soft matter in which the reversible self-assembled aggregates formed by non-amphiphilic molecules show liquid crystalline phases [4 – 7]. The range of materials which forms chromonic LC phases includes drugs [2, 3, 8 – 10], dyes [11 – 14], and DNA nucleotides, such as guanosine derivatives [15, 16].

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Liquid Crystals Beyond Displays : Chemistry, Physics, and Applications, Hardcover by Li, Quan (EDT), ISBN 1118078616, ISBN-13 9781118078617, Like New Used, Free shipping "The responsive nature and diversity of liquid crystals provide tremendous opportunities as well as challenges for insights in fundamental science, and opens the door to various applications.

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This review is adapted from the forthcoming book Liquid Crystals Beyond Displays: Chemistry, Physics and Applications (Ed: Q. Li), John Wiley & Sons, 2012 ... we focus on different classes of light driven chiral molecular switches or motors in liquid crystal media for the induction and manipulation of photoresponsive cholesteric liquid ...