

flexible liquid crystal displays pdf

A liquid-crystal display (LCD) is a flat-panel display or other electronically modulated optical device that uses the light-modulating properties of liquid crystals. Liquid crystals do not emit light directly, instead using a backlight or reflector to produce images in color or monochrome. LCDs are available to display arbitrary images (as in a general-purpose computer display) or fixed images ...

Liquid-crystal display - Wikipedia

In 1969, Hans Kelker succeeded in synthesizing a substance that had a nematic phase at room temperature, MBBA, which is one of the most popular subjects of liquid crystal research. The next step to commercialization of liquid-crystal displays was the synthesis of further chemically stable substances (cyanobiphenyls) with low melting temperatures by George Gray.

Liquid crystal - Wikipedia

Remember molecules are not liquid crystals--phases are! The cyanobiphenyls are used routinely in displays. These calamitic liquid crystals have a rigid polarizable core and have a flexible aliphatic tail on one of the sides.

Classification and Examples of Liquid Crystals

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The development of visibleâ€•lightâ€•mediated allylation of unactivated sp³ Câ€•H bonds is reported. The remote allylation was directed by the amidyl radical, which was generated by photocatalytic fragmentation of a preâ€•functionalized amide precursor.

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