

Dynamical behavior of surface-stabilized states of ferroelectric liquid crystals in electric field studied by time-resolved FT-IR spectroscopy.

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Time-resolved FT-IR studies of two liquid-crystals (4-decyloxy-4'-{(s)-2-methylhexyloxy carbonyl}tolane and 4-decyloxy-3'-fluoro-4'-{(i)-2-methyloctyloxy carbonyl}tolane) in Sc* phase were undertaken. The effects of temperature and voltage on the induced reorientation of the molecules were studied. According to the theoretical predictions, the electric field did not resolve spectra (as compared with the static ones) may be due to the existence of two different conformations of the molecules.

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