Electric-field-induced reorientation of a ferroelectric liquid crystal with a tolane ring, (*S*)-4-methylhexyl-4-[4-(decyloxy) phenylethynyl}-2-fluorobenzoate studied by time-resolved FT-IR.

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The electric-field-induced reorientation of (s)-4-methyl-hexyl-4-[4-(decyloxy)phenylethynyl]-2-fluorobenzoate in the chiral smectic C (Sc*) phase under various conditions have been studied by time-resolved FT-IR spectroscopy. The time-resolved spectra reveal that the reorientation occurs immediately after the electric field is applied. Of particular noteisthat the c~o Stretching band, strong in the IR spectra, is very weak in the time resolved difference spectra.

Słowa kluczowe

liquid crystals, time-resolved spectroscopy, FT-IR.

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