

Brief Report

Induction of Polyacetylene to a Chiral Smectic Liquid Crystal Chiral Direct Conversion

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Figure S1 displays optical rotatory dispersion (ORD) spectroscopy measurement result, indicating the polymer blend film with SmC* order shows left direction optical rotation. Linear dichroism element of the blend sample for the ORD measurement is negligible (inset of Figure S1) because random orientation of the polymer. A chiral inducer with antipode chirality may induce opposite helical direction for the substituents of the polymer to show right direction optical rotation.

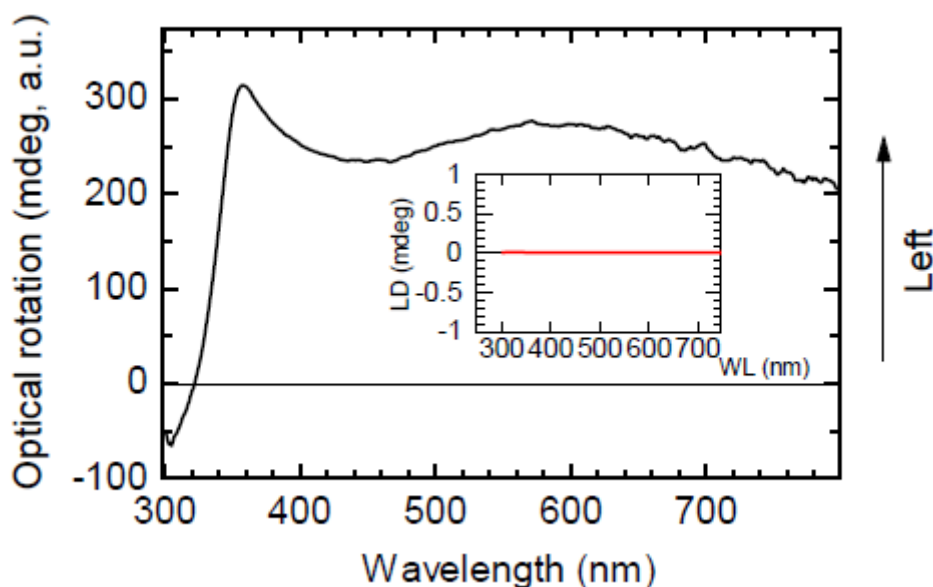


Figure 1. Optical rotatory dispersion spectrum of SmC*-LC-poly(Ac-Pyr) blend. Inset shows linear dichroism of the blend film (red line).



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