

Supporting information for

Chirality inversion in cholesteric phases of bent-shaped liquid crystal dimers with chiral dopants

Yuki Arakawa ^{*a} and Junji Watanabe ^b

^a *Department of Applied Chemistry and Life Science, Graduate School of Engineering, Toyohashi University of Technology, 1-1 Hibarigaoka, Tempaku-cho, Toyohashi, Aichi 441-8580, Japan. E-mail: arakawa@tut.jp*

^b *Laboratory for Future Interdisciplinary Research of Science and Technology, Institute of Science Tokyo, Yokohama, Kanagawa 226–8501, Japan.*

*Correspondence to Y.A. (arakawa@tut.jp).

POM

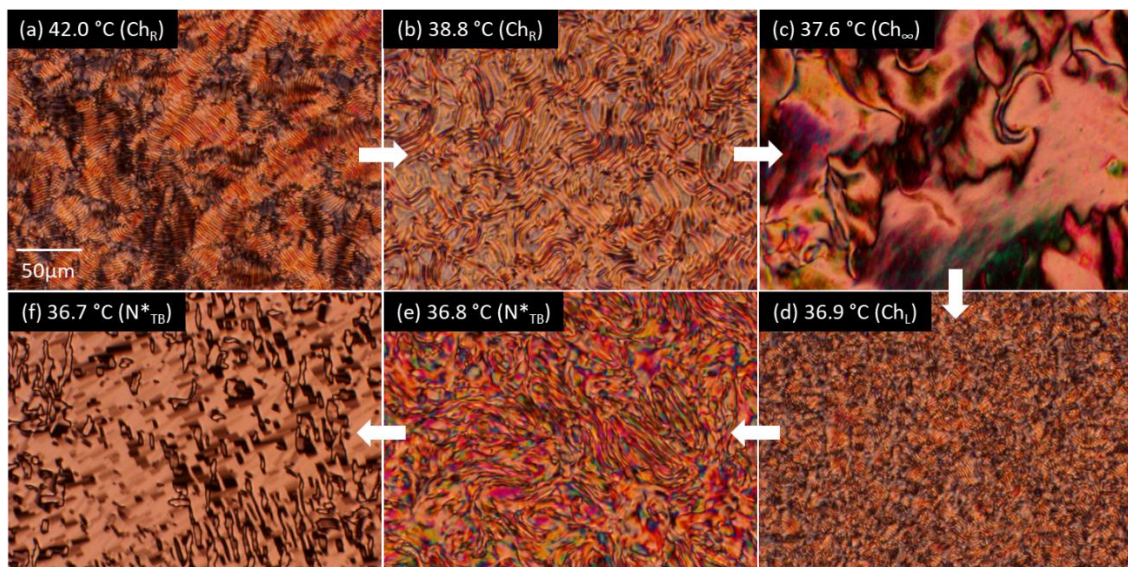


Fig. S1. POM images of the 9OCCHP5/11OCCHP5 dimer mixture with 0.5 wt% ISO-(6OBA)₂.

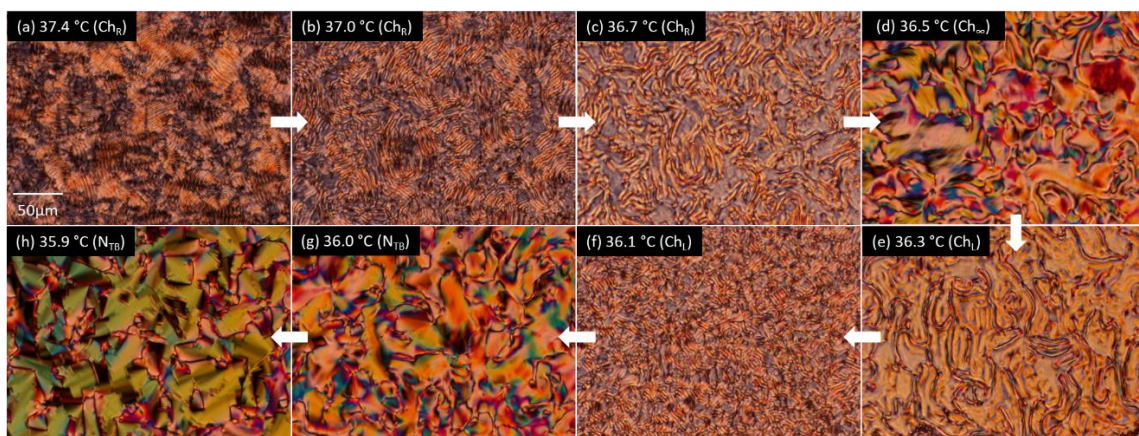


Fig. S2. POM images of the 9OCCHP5/11OCCHP5 dimer mixture with 1.0 wt% ISO-(6OBA)₂.

DSC

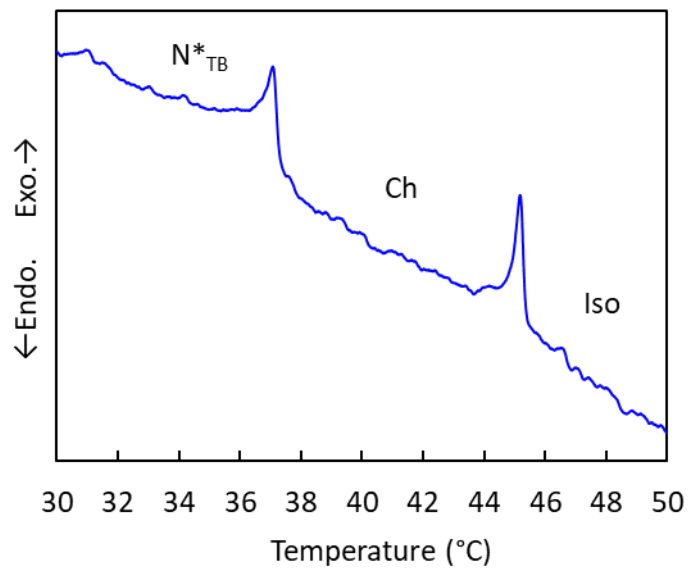


Fig. S3. A DSC curve of the 90CCHP5/11OCCHP5 dimer mixture with 1.0 wt% ISO-(6OBA)₂ at a rate of 1 °C min⁻¹.

UV-Visible absorption spectra

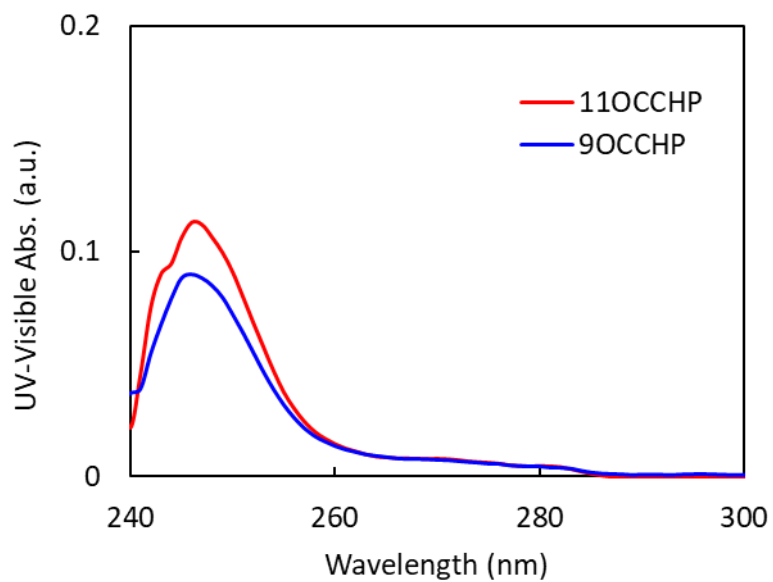


Fig. S4. UV-Visible absorption spectra of 90CCHP5 (blue) and 11OCCHP5 (red) in THF at the ambient temperature.

Helical pitch plots

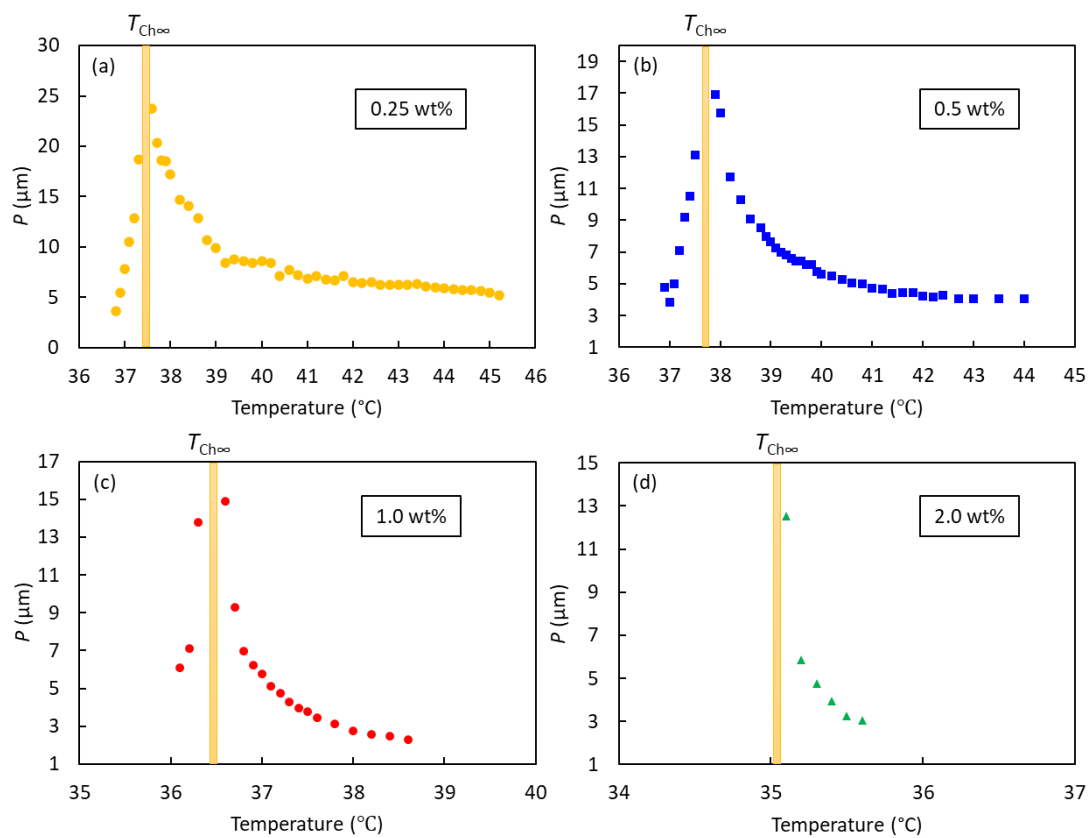


Fig. S5. Helical pitch plots of the four dimer mixtures with (a) 0.25, (b) 0.5, (c) 1.0, and (d) 2.0 wt% CD concentrations.