

## **Supporting Information**

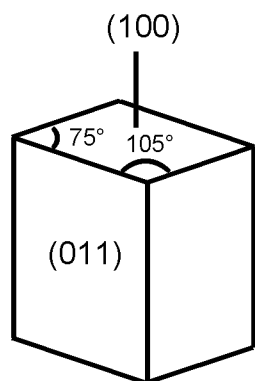
### **Full-Color Photochromism of Diarylethene Crystals**

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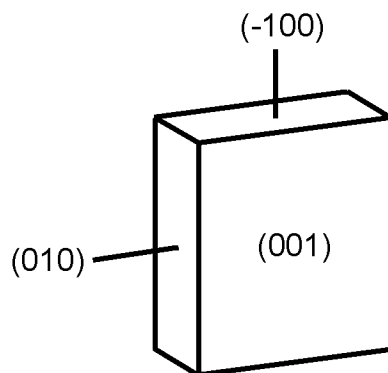
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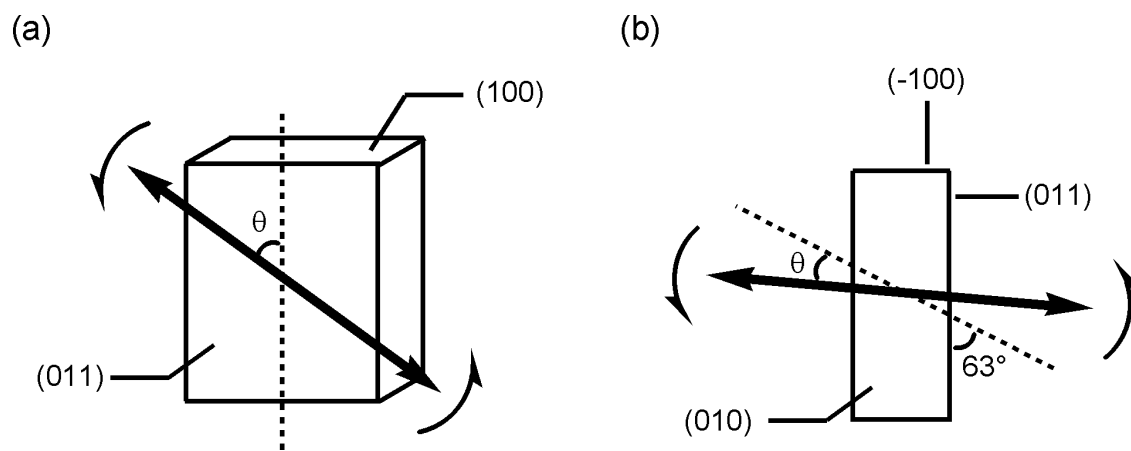
(a)



(b)



**Figure S1.** Shapes of crystals **1a/2a- $\alpha$**  and **1a/2a/3a** (a), and crystal **1a/2a- $\beta$**  (b). The shapes of crystals **1a/2a- $\alpha$**  and **1a/2a/3a** are the same as that of crystal **2a**, and the shape of crystal **1a/2a- $\beta$**  is the same as that of crystal **1a**.



**Figure S2.** Correlation between crystal shapes and direction of polarized light in measurement of polarized absorption spectra: (a) crystals **1a/2a-α** and **1a/2a/3a**, (b) crystal **1a/2a-β**. Bold arrows show direction of polarized light.