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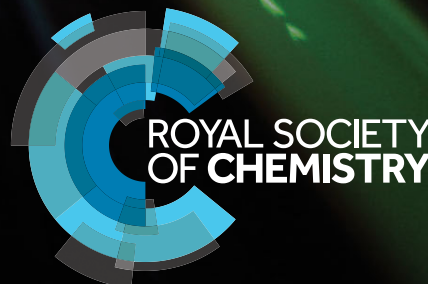


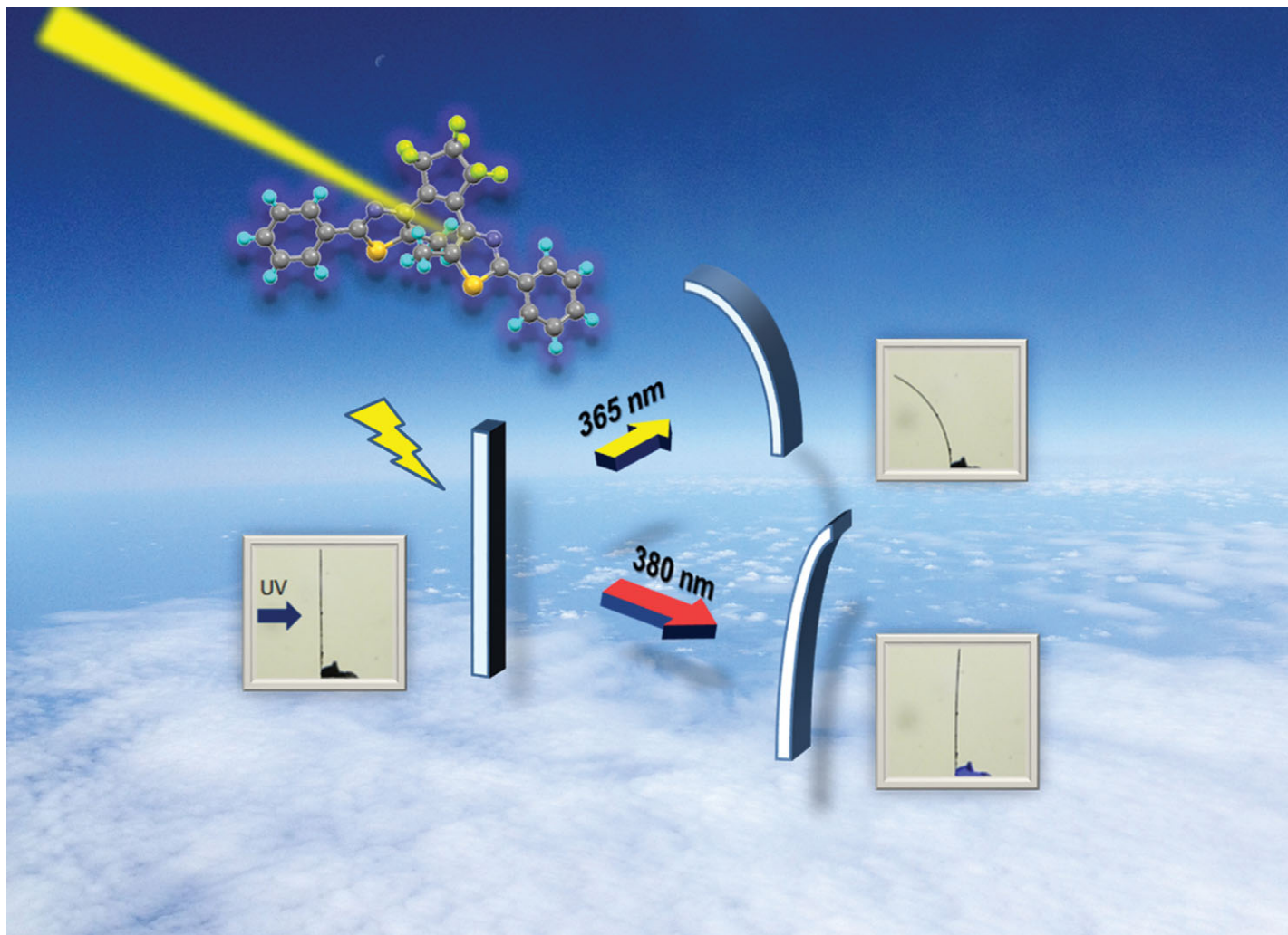
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Showcasing research from the Laboratory of Dr Seiya Kobatake at the Graduate School of Engineering, Osaka City University, Japan

Title: Dependence of photoinduced bending behavior of diarylethene crystals on irradiation wavelength of ultraviolet light

When irradiated with 365 nm light, a crystal of 1,2-bis(5-methyl-2-phenyl-4-thiazolyl)perfluorocyclopentene bends toward the incident light. In contrast, when irradiated with 380 nm light, the crystal first bends away from the light source and then bends toward the incident light. This bending behavior can be explained by a comprehensive mechanism based on the depth of the photochromic reaction from the crystal surface. This mechanism is successfully supported by the change of cell parameters associated with the photochromic reaction upon irradiation with 380 nm light, which was determined by *in situ* X-ray crystallographic analysis.

As featured in:



See Seiya Kobatake *et al.*,
Phys. Chem. Chem. Phys.,
2015, 17, 27300.



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