Photochromism of a Dithienylethene Having Diphenylamino Side Groups in the Bulk Amorphous Phase

Masato Fukudome, Kazushi Kamiyama, Tsuyoshi Kawai, and Masahiro Irie

Photochromic dithienylethene, 1a, formed a stable bulk amorphous state with $T_g$ higher than 100 °C and reversible refractive index changes ($\Delta n = 0.040$) by alternate irradiation with ultraviolet and visible light in the amorphous film.