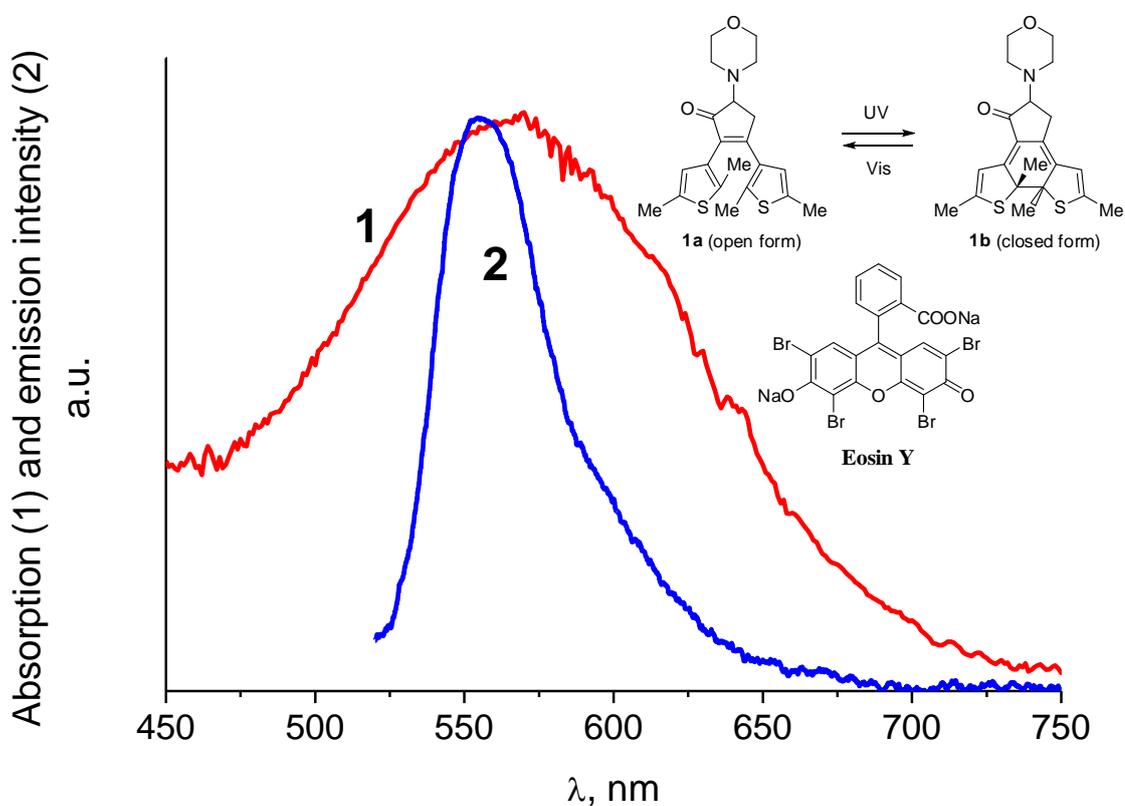


## Fluorescence modulation of eosin Y in a PMMA film by diarylethene switching

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**Figure S1** Overlap of diarylethene **1** closed form absorption spectrum (curve 1) and eosin Y emission spectrum (curve 2). PMMA films. Arbitrary units.

**Table S1** Photochromic properties of diarylethene **1** in acetonitrile [S1].

$\phi_{A \rightarrow B}$ , 365 nm	$\phi_{B \rightarrow A}$ , 530 nm	Number of cycles*
0.27	0.065	1500

\*Decrease of maximal absorption of the closed form to 80% of the first cycle in air-saturated solution.

[S1] V.Z. Shirinian, A.A. Shimkin, D.V. Lonshakov, A.G. Lvov and M.M. Krayushkin, *J. Photochem. Photobiol., A*, 2012, **233**, 1.