

Figure s1. UV-vis spectra of safranin alone and with coinitiators

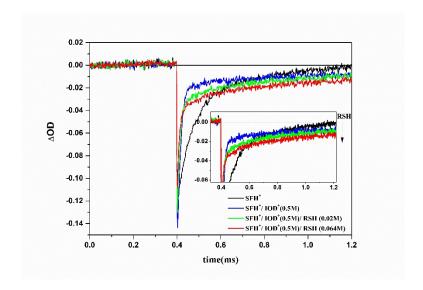


Figure s2. Ground state photobleaching of [SFH⁺] recorded at 520 nm in the presence of IOD⁺ at 0.5 M and various concentrations of RSH (λ_{exc} = 518 nm, 6-7 mJ/pulse).

Table s1. Photochemical and redox properties of PIS component in acetonitrile.

	$\lambda_{abs}^{max}(^{0}\mathrm{SFH^{+}})(\mathrm{nm})$	$\lambda_{abs}^{max}(^{3}SFH^{+})(nm)$	$\varepsilon(\lambda_{abs}^{max})$ (L.mol ⁻¹ .cm ⁻¹)	E _T (ev)	$E_{Ox}(V)$	$E_{Red}(V)$
SFH ⁺	518	820	44000	1.83	0.86	-0.62
IOD^+	<375					-0.2
RSH	<375				1.52	