Electronic Supplementary Information

Fluorescence patterning with mild illumination in polymer

films of photocleavable oxazines

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Fig. S5 Absorption spectra of 5, spin coated on quartz, recorded before (*a*) and during (*b*) irradiation (350 nm, 4.3 mW cm^{-2} , 50 min).



Fig. S6 Absorption and emission (λ_{Ex} = 470 nm) spectra of **11**, spin coated on quartz and doped with **10** (10% w/w), recorded before (*a* and *c*) and during (*b* and *d*) irradiation (350 nm, 4.3 mW cm⁻², 35 min).





Fig. S8 Absorption and emission (λ_{Ex} = 470 nm) spectra of **11**, spin coated on quartz and doped with **8** (80% w/w) and **10** (10% w/w), recorded before (*a* and *c*) and during (*b* and *d*) irradiation (350 nm, 4.3 mW cm⁻², 25 min).



Fig. S9 Confocal laser-scanning fluorescence images ($\lambda_{Ex} = 514$ nm, $\lambda_{Em} = 525-600$ nm, scale bar = 100 µm) of **11**, spin coated on glass and doped with **10** (10% w/w), recorded before (*a*) and either 60 (*b*) or 300 s (*c*) after illumination (405 nm, 0.1 mW) of defined areas within the imaging field.



Fig. S10 Confocal laser-scanning fluorescence images (λ_{Ex} = 514 nm, λ_{Em} = 520–650 nm, scale bar = 200 µm) of either **5** (*a* and *b*) or **11** (*c* and *d*), spin coated on glass and doped with **13** (10% w/w), recorded before (*a* and *c*) and 120 s (*b* and *d*) after illumination (405 nm, 0.1 mW) of defined areas within the imaging field.