Supporting Information’s

Subphthalocyanine–pyrene dyad: Electron transfer and singlet oxygen generation

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Fig. S1. $^1$H-NMR spectrum of SubPc-Py (3) in CDCl$_3$.

Fig. S2. MALDI-TOFF spectrum of SubPc-Py (3).
Fig. S3. Absorption spectra of SubPc-Py 3 in different solvents, as well as the SubPc and Py control compounds.
**Fig. S4.** CV voltammograms of the SubPc control (upper figure) and SubPc-pyrene (lower figure) in THF.
Fig. S5. Nanosecond transient absorption spectra at the indicated time intervals of the SubPc control in Ar-saturated acetonitrile solution; $\lambda_{ex} = 570$ nm. Inset shows the decay profile of the triplet SubPc in argon and oxygen saturated solutions.
Figure S6. Nanosecond transient absorption spectra at the indicated time intervals of the SubPc-pyrene dyad in Ar-saturated DMF solution; $\lambda_{ex} = 570$ nm. Inset shows the decay profile of the triplet SubPc in argon and oxygen saturated solutions.
Fig. S7. Nanosecond transient absorption spectra at the indicated time intervals of the SubPc-pyrene dyad in Ar-saturated THF solution; $\lambda_{ex} = 570$ nm. Inset shows the decay profile of the triplet SubPc in argon and oxygen saturated solutions.
Fig. S8. Nanosecond transient absorption spectra at the indicated time intervals of the SubPc-pyrene dyad in Ar-saturated toluene solution; $\lambda_{ex} = 355$ nm. Inset shows the decay profile of the triplet SubPc in the presence of oxygen and argon saturated solutions.
**Fig. S9.** Nanosecond transient absorption spectra at the indicated time intervals of the SubPc-pyrene dyad in Ar-saturated DMF solution; $\lambda_{ex} = 355$ nm. Inset shows the decay profile of the triplet SubPc.