Solvent Effect on Triplet-Triplet Annihilation Upconversion of diiodo-Bodipy and Perylene

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Supporting information

Fig S1. Nanosecond time-resolved transient absorption spectra of I₂-Bodipy in hexane (a), heptane (b), toluene (c), dioxane (d), dms (e). λ_ex = 532 nm, c=1×10⁻⁵ M.
Fig S2. Bimolecular quenching rate constants $k_q$ in the presence of perylene in toluene with fixed concentration of I$_2$-Bodipy ($5.0 \times 10^{-6}$ M). $\lambda_{ex} = 532$ nm

\[ K_q = (5.1 \pm 0.2) \times 10^9 \text{ M}^{-1}\text{s}^{-1} \]

Fig S3. The prompt and delayed fluorescence spectra of I$_2$-Bodipy and perylene system, where the red line is the prompt fluorescence spectrum of I$_2$-Bodipy alone and the black is the delayed fluorescence spectrum at $\lambda_{ex} = 532$ nm. [I$_2$-Bodipy]=5×10$^{-6}$ M, and [perylene]=3×10$^{-4}$ M.