

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

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Supporting information

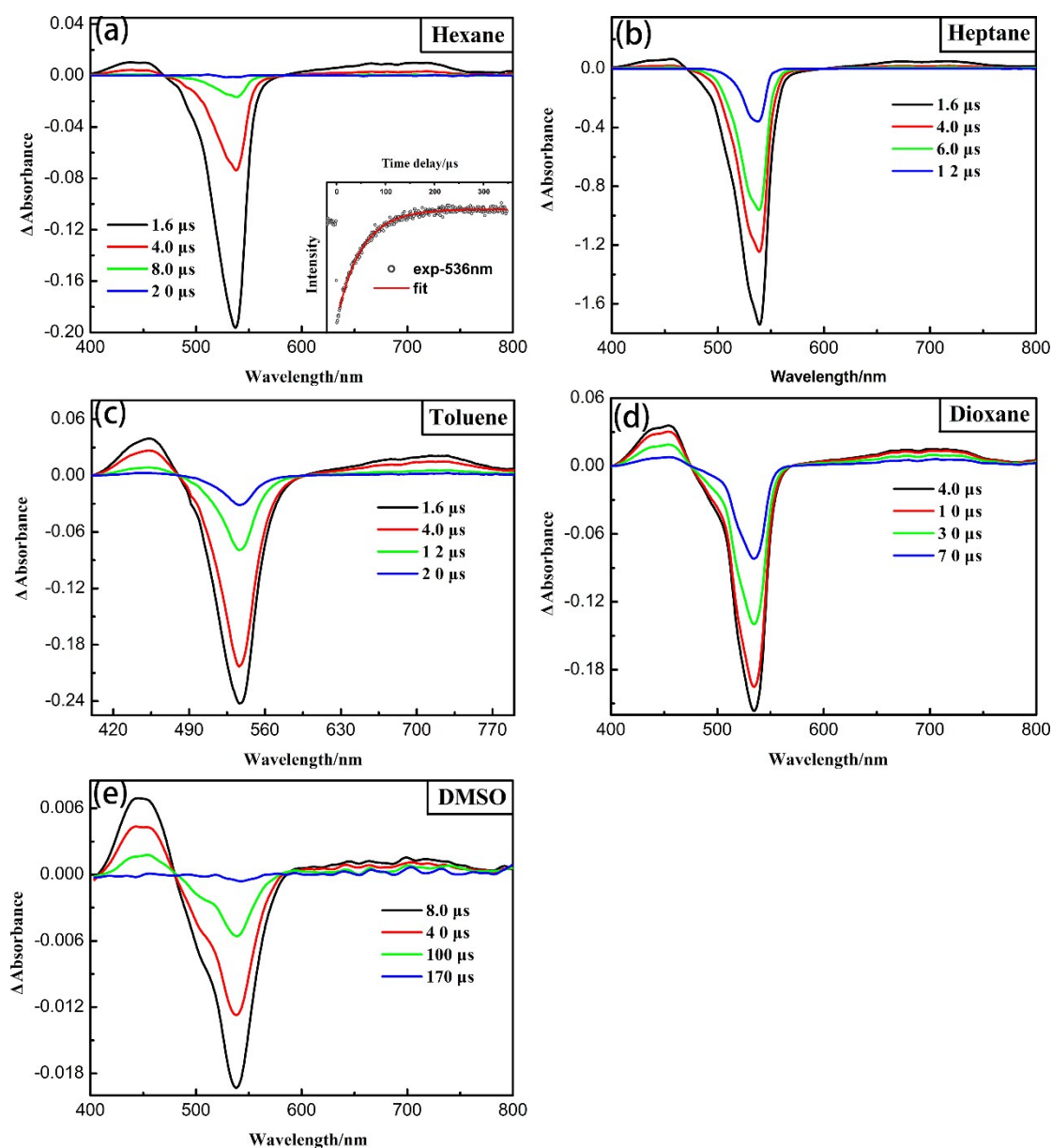


Fig S1. Nanosecond time-resolved transient absorption spectra of I₂-Bodipy in hexane

(a), heptane (b), toluene (c), dioxane (d), dmso (e). $\lambda_{\text{ex}} = 532 \text{ nm}$, $c = 1 \times 10^{-5} \text{ M}$.

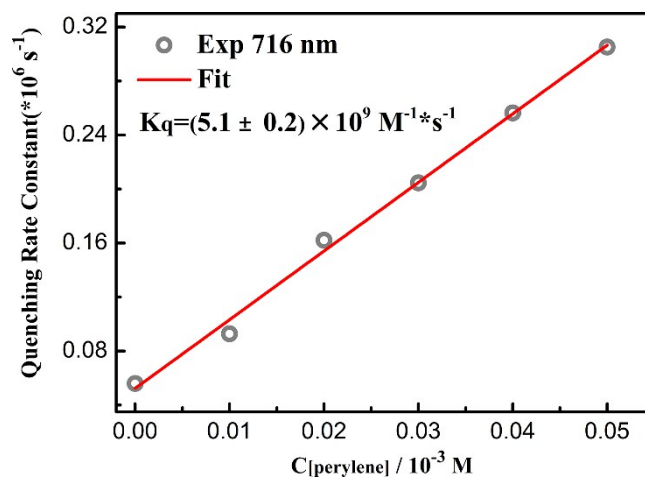


Fig S2. Bimolecular quenching rate constants k_q in the presence of perylene in toluene with fixed concentration of I₂-Bodipy (5.0×10^{-6} M). $\lambda_{ex} = 532$ nm

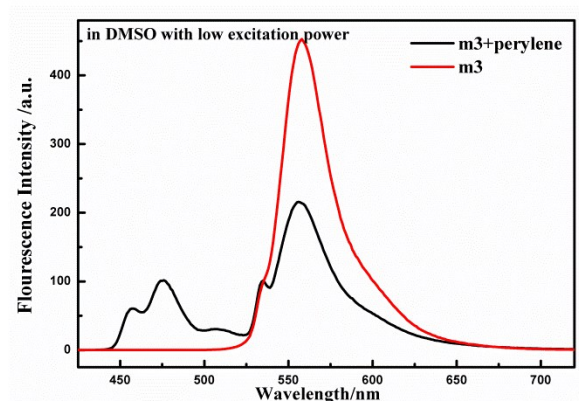


Fig S3. The prompt and delayed fluorescence spectra of I₂-Bodipy and perylene system, where the red line is the prompt fluorescence spectrum of I₂-Bodipy alone and the black is the delayed fluorescence spectrum at $\lambda_{ex} = 532$ nm. [I₂-Bodipy]= 5×10^{-6} M, and [perylene]= 3×10^{-4} M.