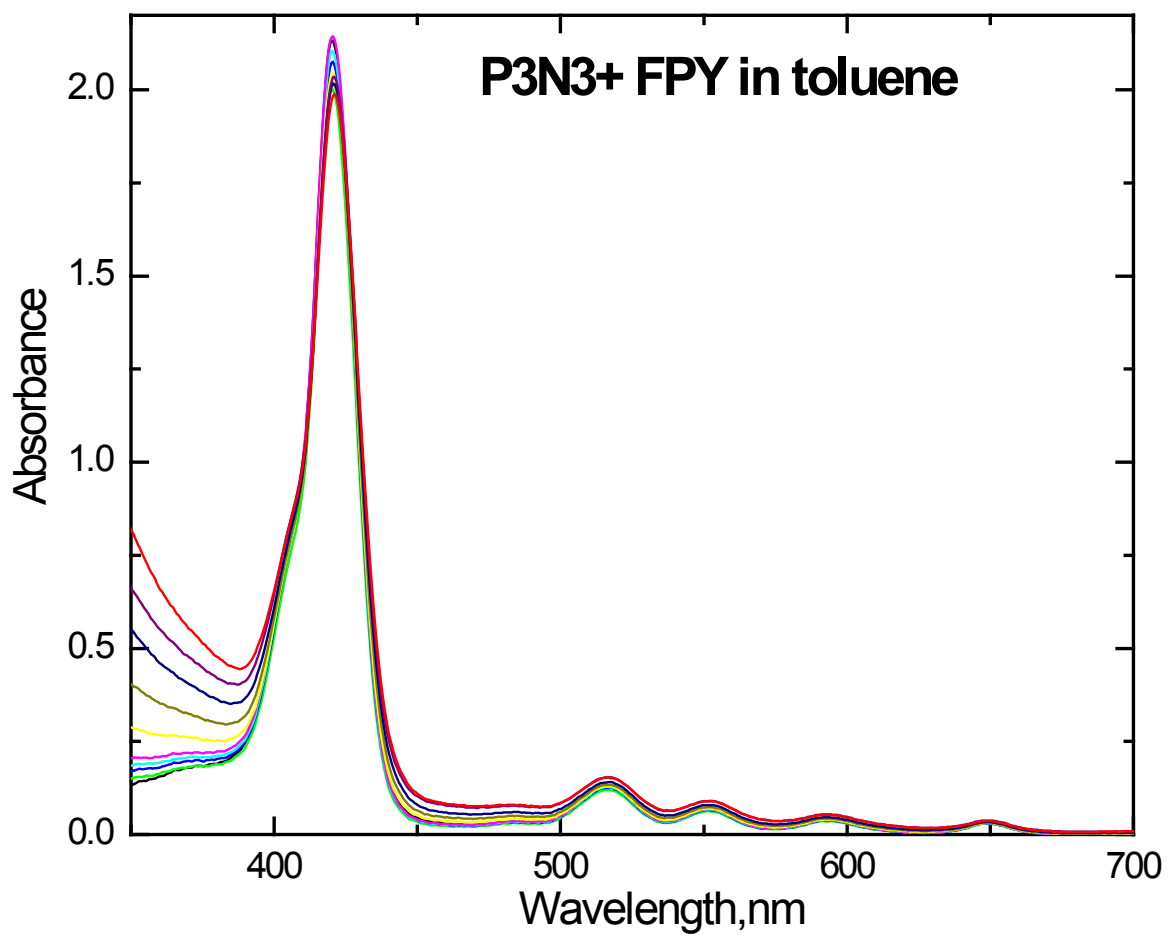


## Supporting Information for

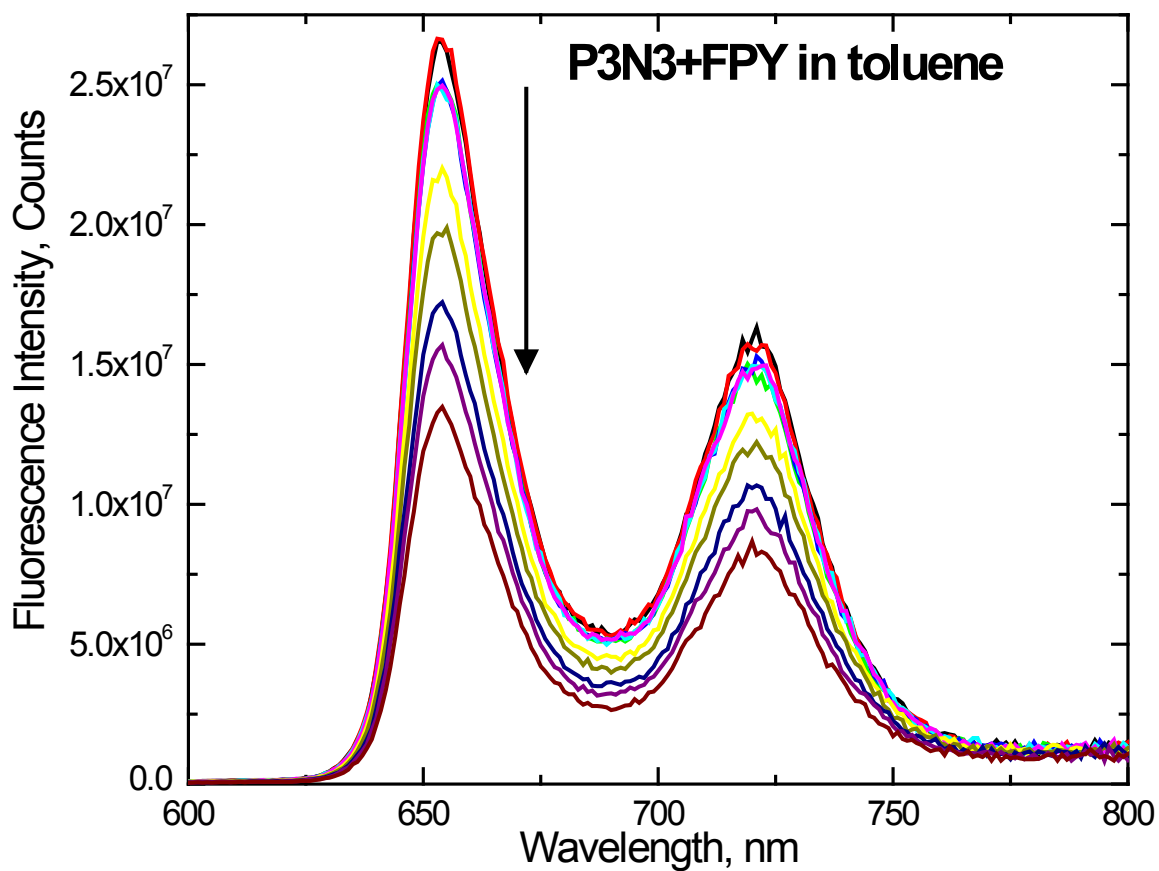
# Cyclotriphosphazene Appended Porphyrins and Fulleropyrrolidine Complexes as Supramolecular Multiple Photosynthetic Reaction Centers: Steady and Excited States Photophysical Investigation

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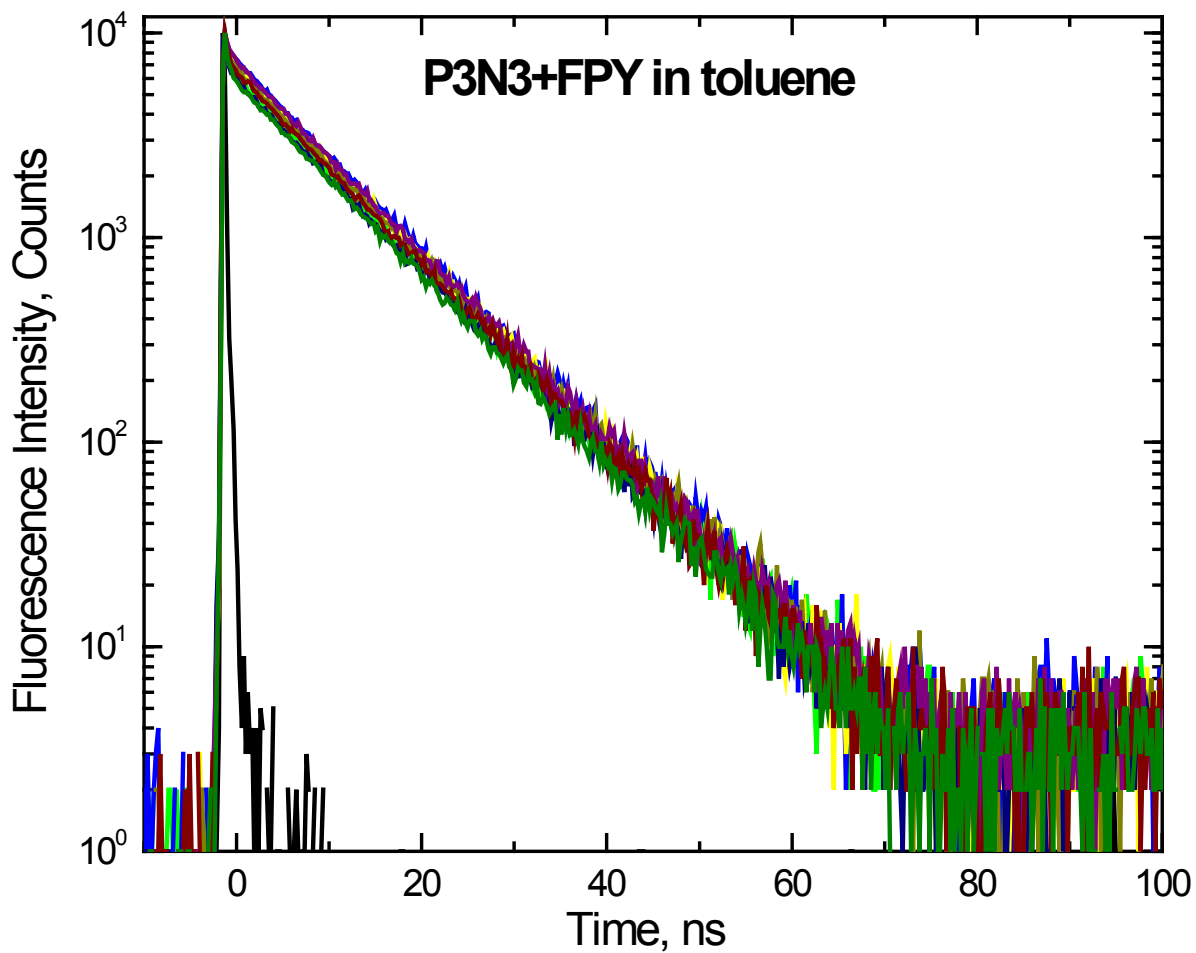
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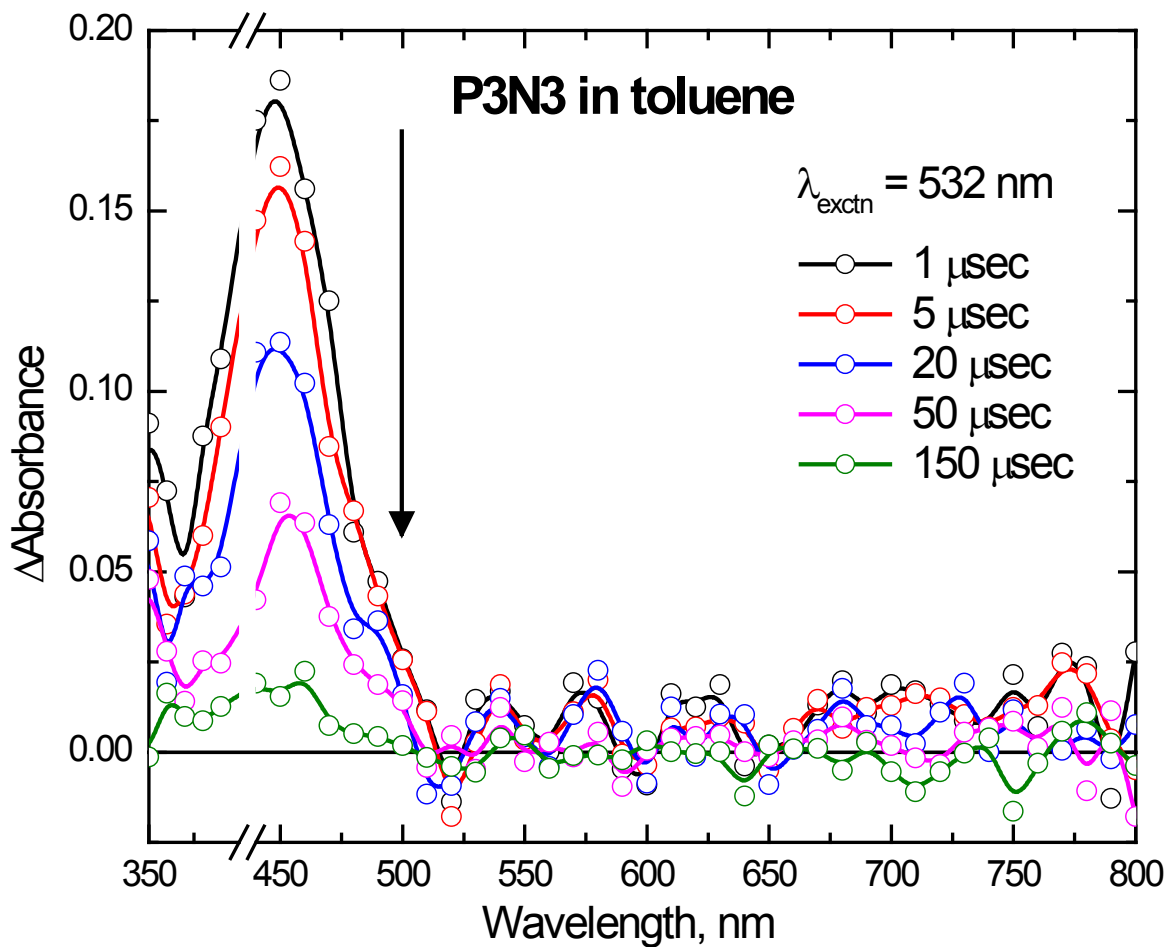
**Figure S1** The absorption spectral changes of **P3N3** ( $3 \times 10^{-5}$  M) with increase of concentration of **FPY** ( $6 \times 10^{-6}$  to  $3 \times 10^{-4}$  M) in toluene.



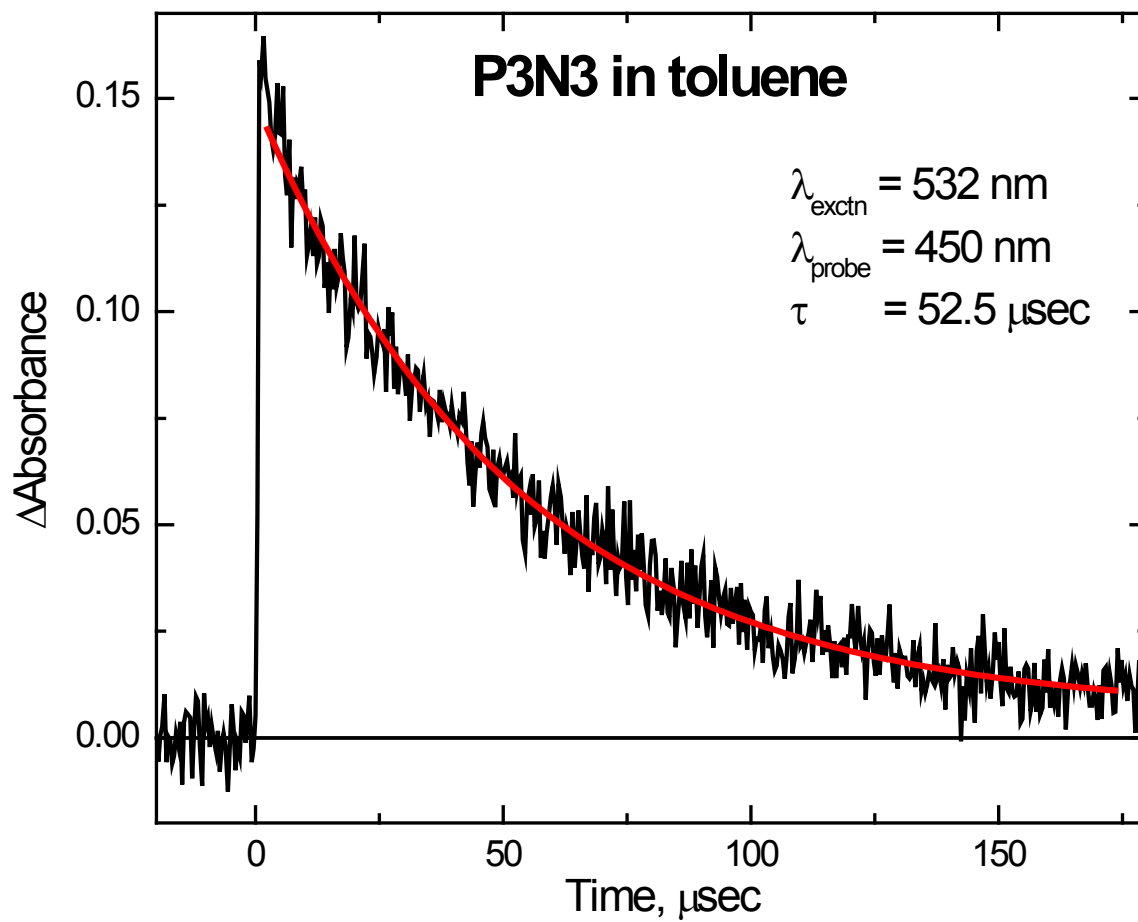
**Figure S2** The emission spectral changes of **P3N3** ( $3 \times 10^{-5}$  M) with increase of concentration of **FPY** ( $6 \times 10^{-6}$  to  $3 \times 10^{-4}$  M) in toluene. Excitation wavelength is 420 nm.



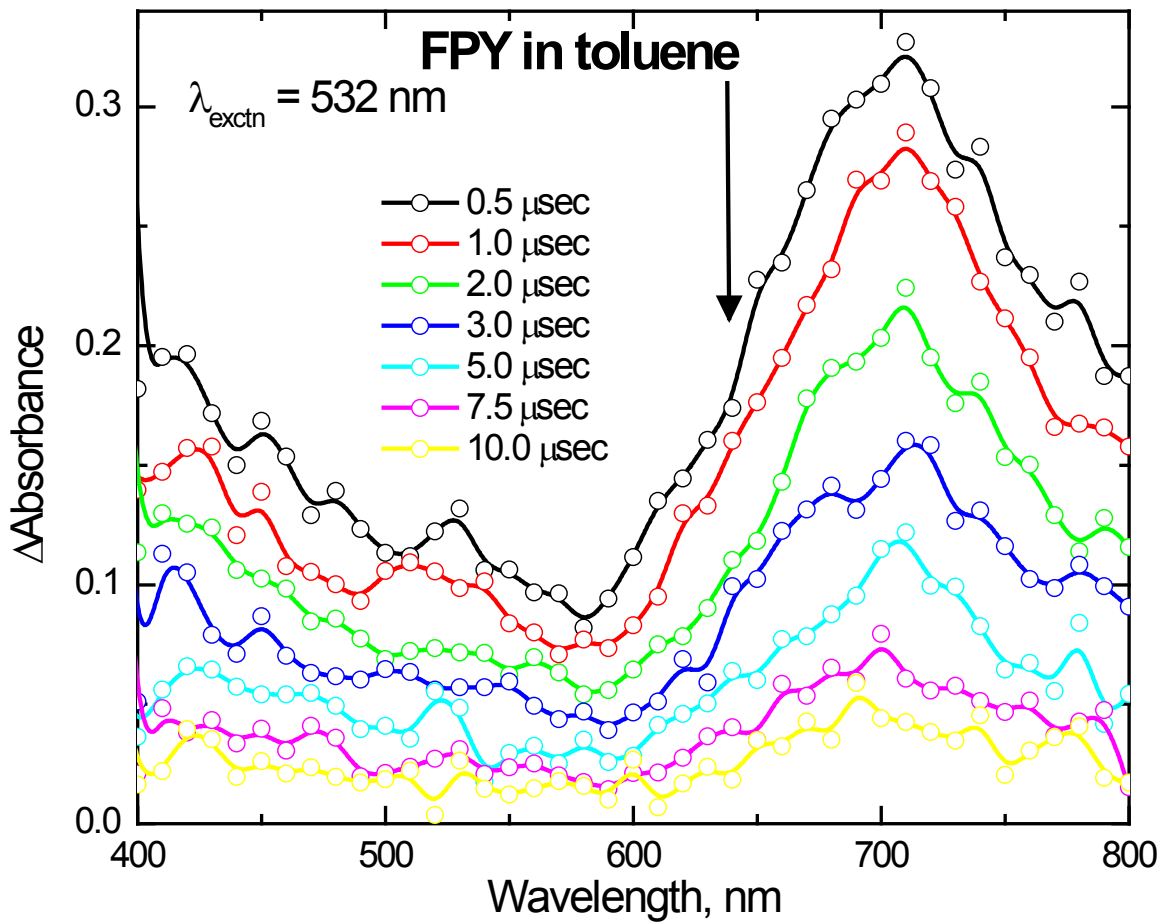
**Figure S3** The fluorescence decay curves of **P3N3** ( $3 \times 10^{-5}$  M) with increasing concentration of **FPY** ( $6 \times 10^{-6}$  to  $3 \times 10^{-4}$  M) in toluene. Samples were excited using 440 nm LED (200 ps) source, and emission monitored at 650 nm.



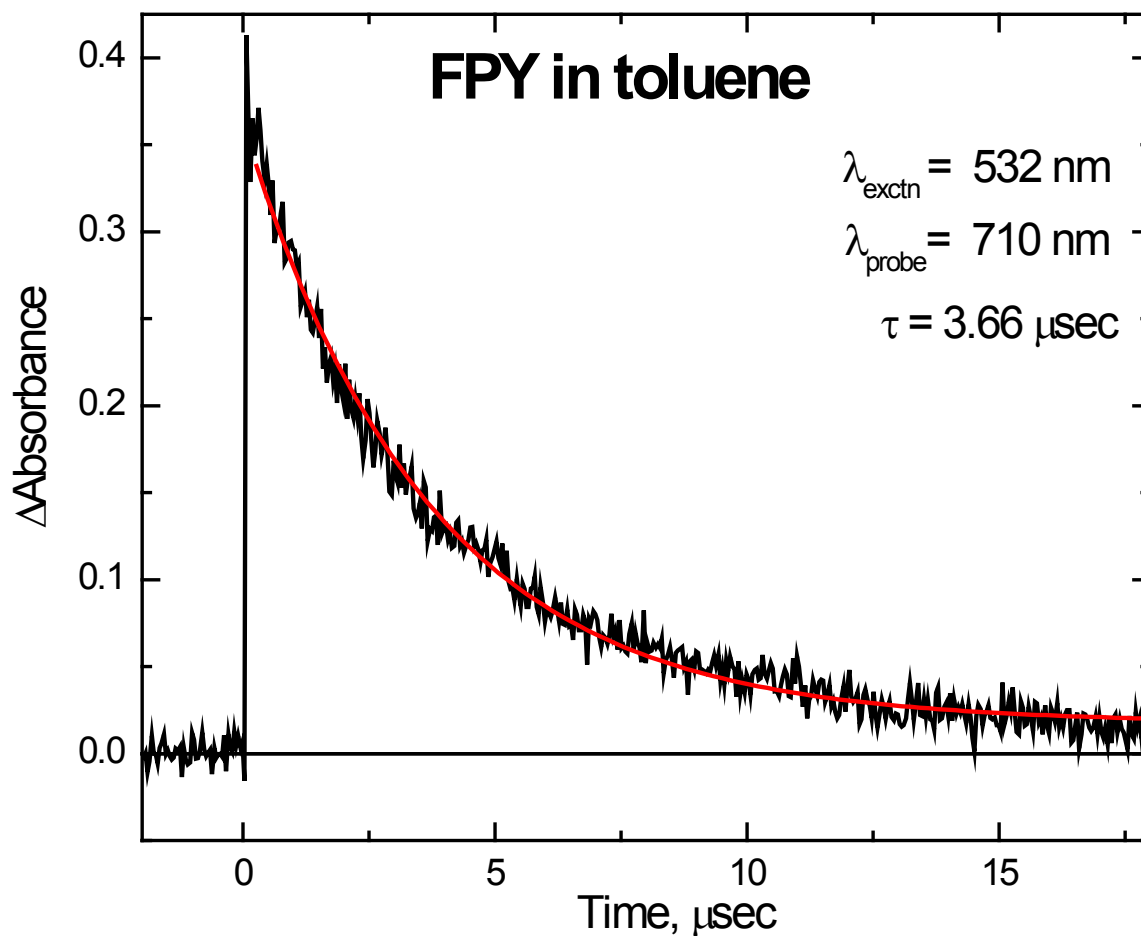
**Figure S4** The nanosecond transient absorption spectra of **P3N3** ( $1 \times 10^{-4} \text{ M}$ ) in toluene obtained by laser flash photolysis exciting at 532 nm in Ar saturated toluene. The spectra at different time scales are given in insets.



**Figure S5** The transient kinetic decays of **P3N3** ( $1 \times 10^{-4}$  M) probed at 450 nm in the argon saturated toluene. The triplet of **P3N3** has a lifetime of about 52.5  $\mu\text{sec}$ .



**Figure S6** Nanosecond transient absorption spectra of **FPY** ( $6 \times 10^{-4} \text{ M}$ ) obtained by laser flash photolysis exciting at 532 nm in Ar saturated toluene. The spectra at different time scales are given in insets.



**Figure S7** The transient kinetic decays of FPY ( $6 \times 10^{-4} \text{ M}$ ) probed at 710 nm obtained by laser flash photolysis at 532 nm in Ar saturated toluene. The triplet of FPY has a lifetime of about 3.66  $\mu$ sec.