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Electronic Supplementary Information

for

Aggregation-Enhanced FRET-Active Conjugated Polymer Nanoparticles for Picric Acid Sensing in Aqueous Solution

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Supplementary figures

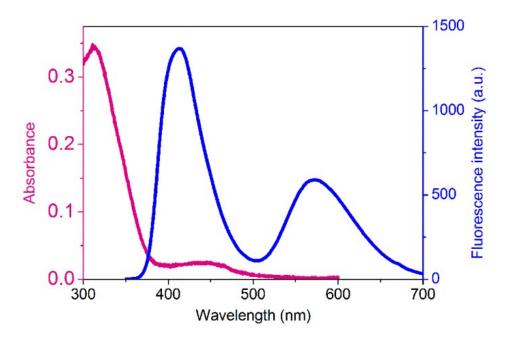


Figure S1. UV-vis absorbance spectrum and fluorescence spectra of P1 in dioxane. [P1] = 8.0 μ M. λ_{ex} = 333 nm.

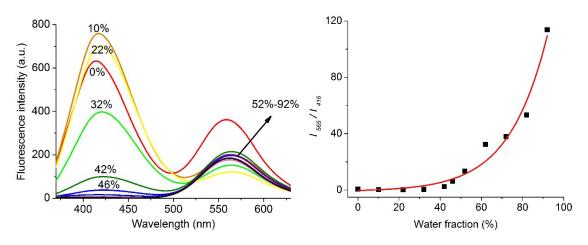


Figure S2. Fluorescence spectra of P1 in dioxane- H_2O mixture solutions (left) and intensity ratio I_{565nm}/I_{416nm} of P1 in the presence of increasing water content (right). [P1] = 8.0 μ M. λ_{ex} = 333 nm.

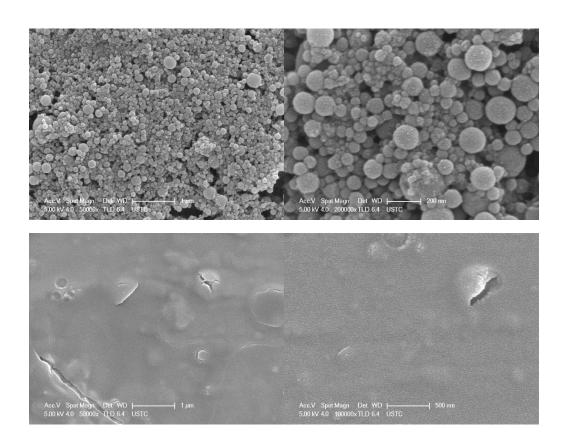


Figure S3. Scanning electron microscope (SEM) images of P1 in aqueous solution (top) and dioxane (down)

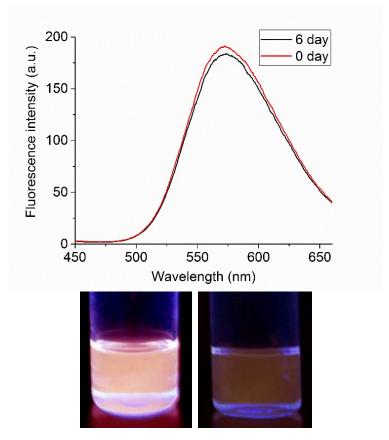


Figure S4. Fluorescence spectra of **P1** before and after 6 days in aqueous solution. [**P1**] = 6.0 mg/mL. λ_{ex} = 333 nm (top) and photos of **P1** solutions before and after addition of 150 μ M PA under UV lamp (365 nm). [**P1**] = 8.0 μ M (down).

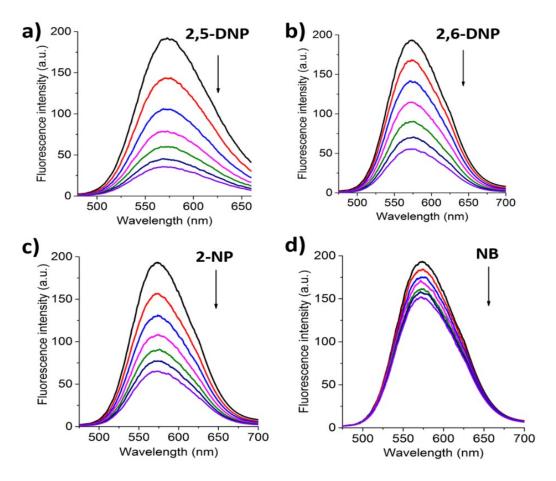


Figure S5. Fluorescence spectra of **P1** in presence of nitroaromatics with varied concentrations ranged from 0 to $300\mu M$ in aqueous solution. [**P1**] = $8.0~\mu M$. λ_{ex} = 333~nm.