Supplementary Materials

Self-Assembly Cationic Cellulose Nanocomplex via Electrostatic Interaction for the Fluorescent Detection of Fe^{3+} Ions

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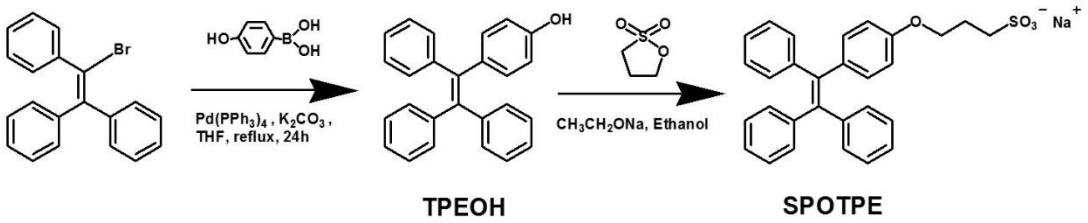

Scheme S1. Synthesis of SPOTPE.

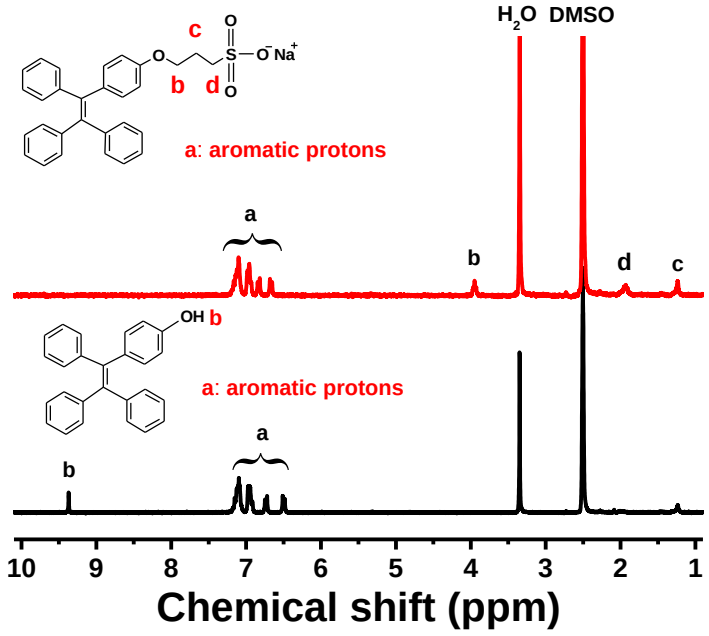

Figure S1. ^{1}H NMR spectra of TPEOH and SPOTPE in DMSO-d_6 at 25 °C.

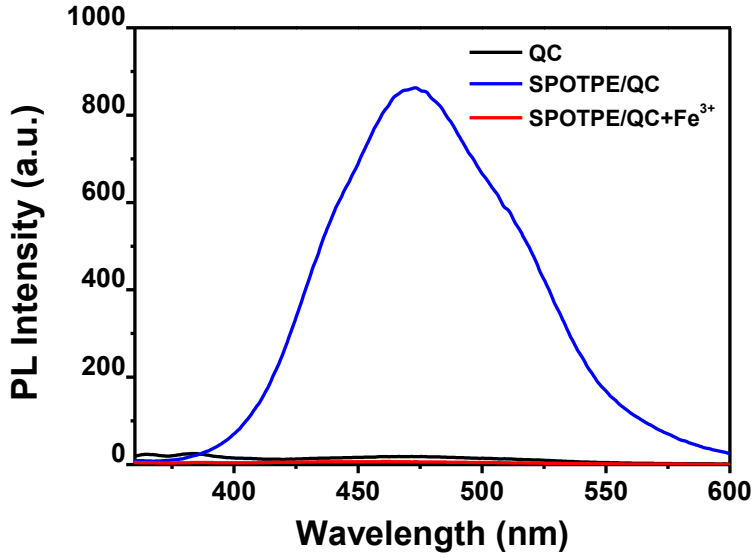

Figure S2. Fluorescence emission spectra of QC, SPOTPE/QC, and SPOTPE/QC+Fe^{3+} aqueous solutions (c_{QC}=0.2 mg/mL, c_{SPOTPE}=0.01 mg/mL, $c_{Fe^{3+}}$=300 μM).

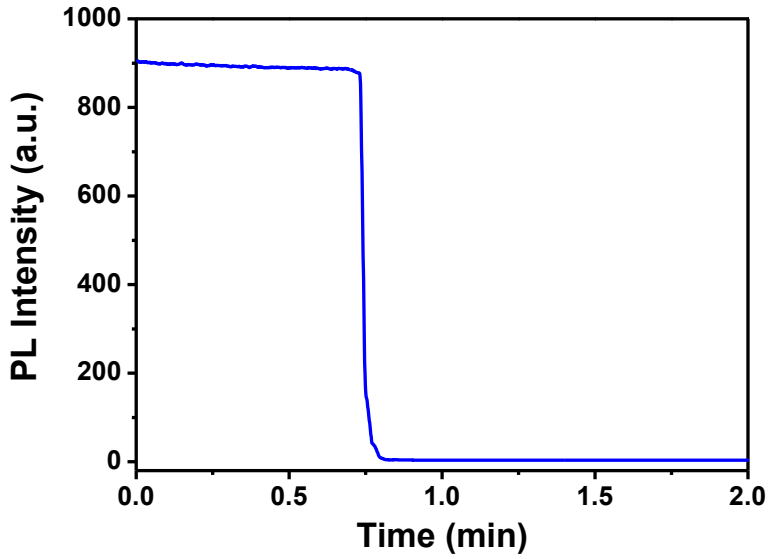

Figure S3. Fluorescence intensity kinetics of SPOTPE/QC solution with the addition of Fe^{3+} ions (c_{QC}=0.2 mg/mL, c_{SPOTPE}=0.01 mg/mL, $c_{Fe^{3+}}$=9 mM).

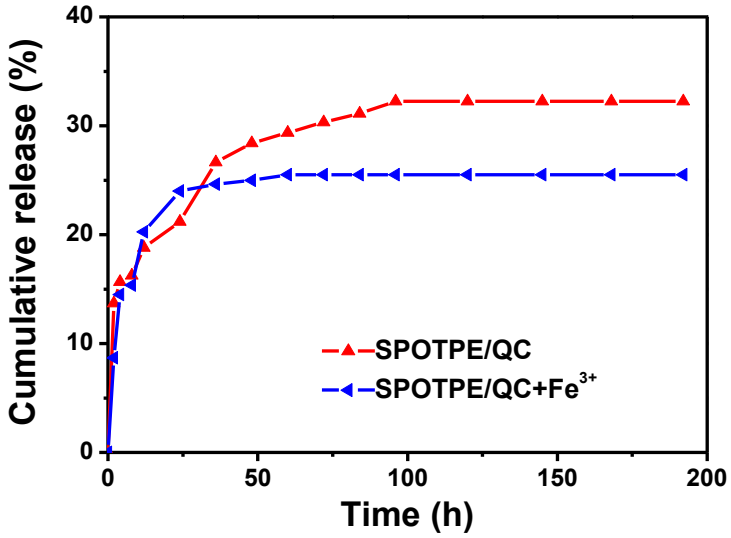

Figure S4. In vitro SPOTPE-released profiles of SPOTPE/QC complex with/without Fe^{3+} ions (300 μM) in water.

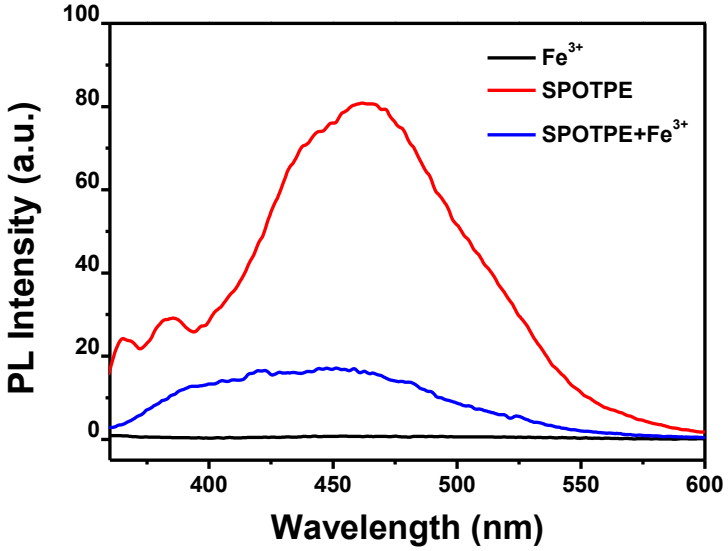

Figure S5. Fluorescence emission spectra of Fe^{3+}, SPOTPE, and SPOTPE+Fe^{3+} aqueous solutions (c_{SPOTPE}=0.2 mg/mL, $c_{Fe^{3+}}$=300 μM).