

Supporting Information

Multifunctional copolyfluorene containing pendant benzimidazolyl groups: Applications in chemical sensors and electroluminescent devices

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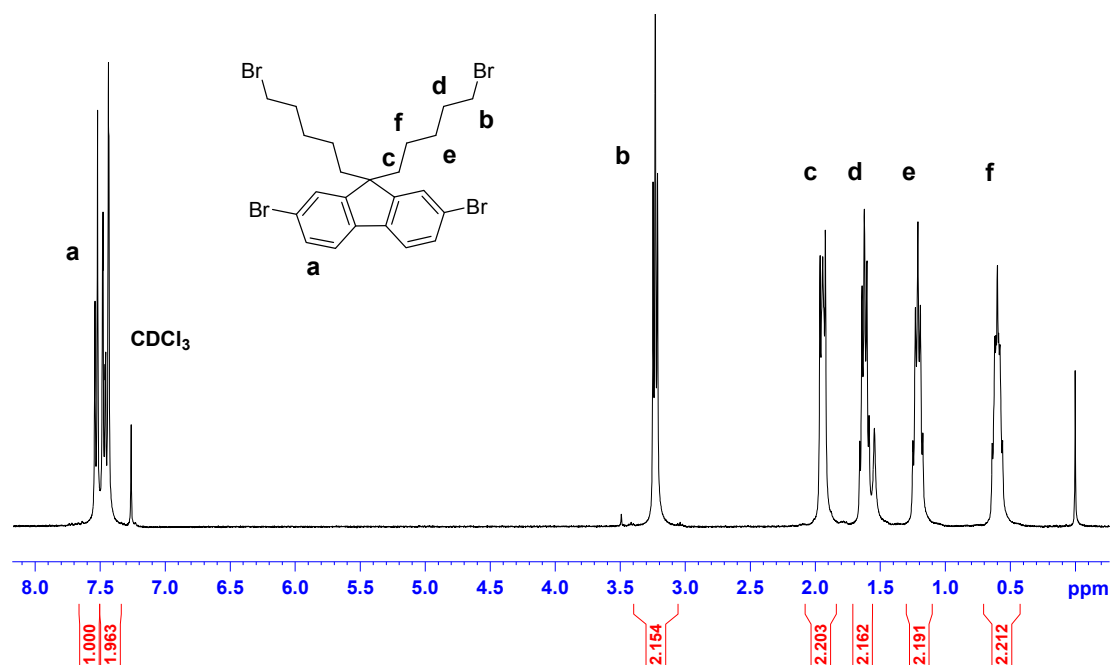


Figure S1. ¹H NMR spectrum of monomer 3.

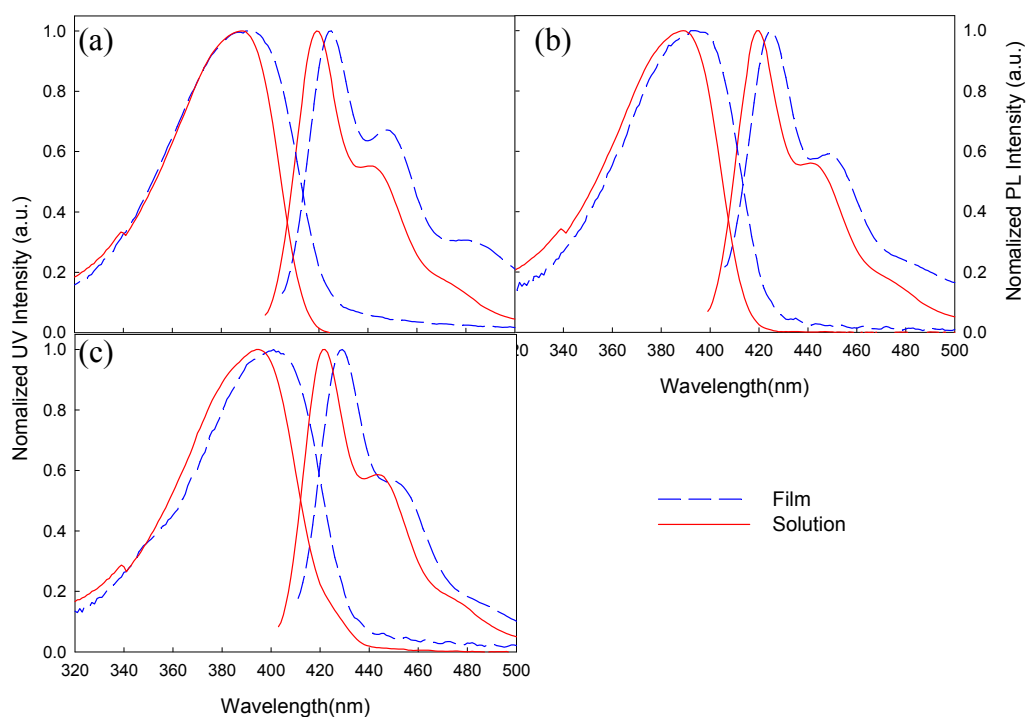


Figure S2. Normalized absorption spectra and photoluminescence (PL) emission spectra of (a) **PF** (b) **PFBr** (c) **PFBI** in THF solution and in the film state. The concentration of polymer was 1.0×10^{-5} M repeating unit. Excitation wavelength was 389 nm.



Figure S3. Photographs of **PFBI** solutions with different concentration of Cu^{2+} . (a) 0 M (b) 1.0×10^{-5} M (c) 2.5×10^{-5} M (d) 5.0×10^{-5} M (e) 7.5×10^{-5} M (f) 1.0×10^{-4} M.

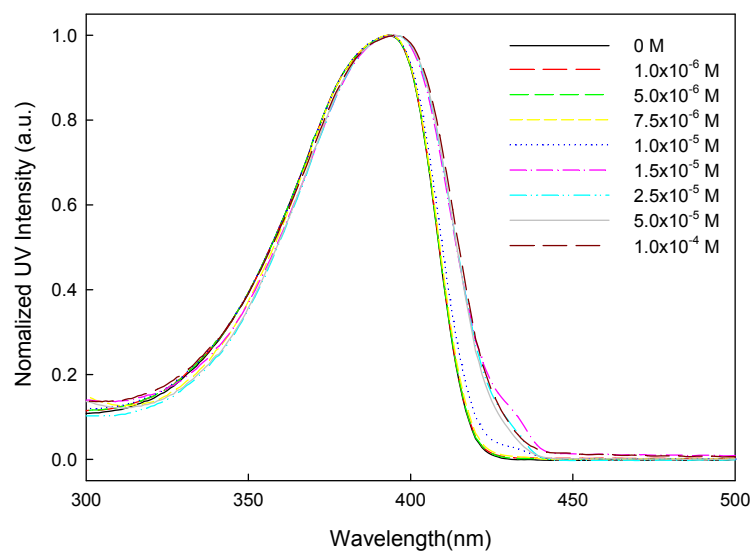


Figure S4. Normalized absorption spectra of **PFBI** with various concentration of Zn^{2+} in solution (THF/Water = 9/1, v/v). The concentration of **PFBI** was 1.0×10^{-5} M repeating unit.