

Supporting Information

Materials and measurements. Acetonitrile was purchased from 6 different companies, i.e., Sigma-aldrich, alfa, Samchun, TCI, Kanto, and Junsei. All anions were used as a form of tetrabutylammonium salt, which have used as received from Sigma-aldrich. Electronic absorption spectra were recorded on a JASCO model V-660 spectrometer. Fluorescence emission spectra were recorded on a JASCO model FP-6300 spectrometer.

Spectroscopic titration of cyanide to **1** and ZnTPP

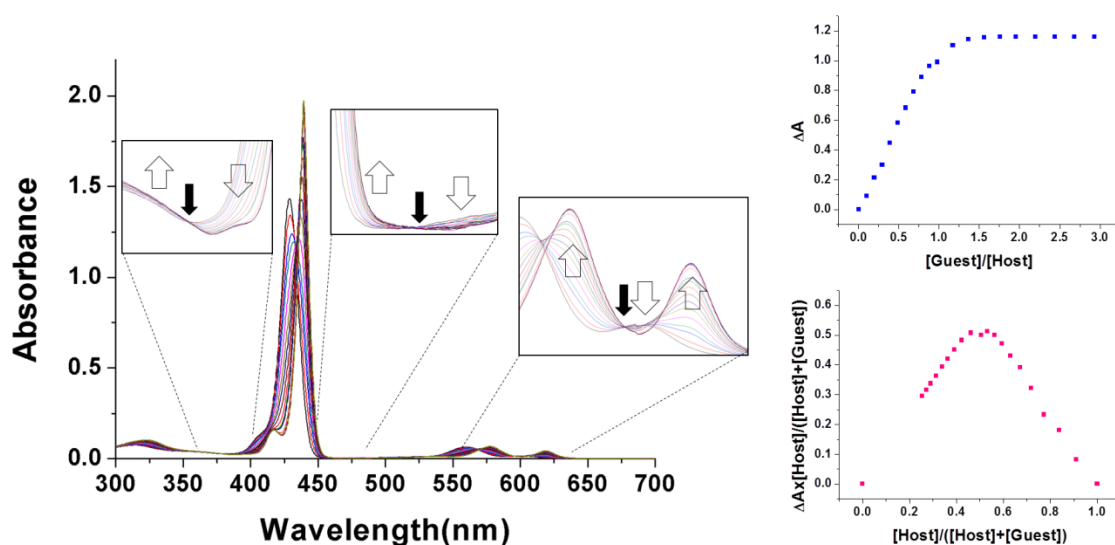


Figure S1. Spectroscopic titration of **1** with CN^- in purified MeCN at 25 °C. $[\mathbf{1}] = 3.90 \times 10^{-6}$ M, $[\text{TBA-CN}]/[\mathbf{1}] = 0\text{--}3.0$, 1 cm thick optical cell; ΔAbs was monitored at 439 nm ($K = 2.12 \times 10^7$); solid arrow pointing out isosbestic points.

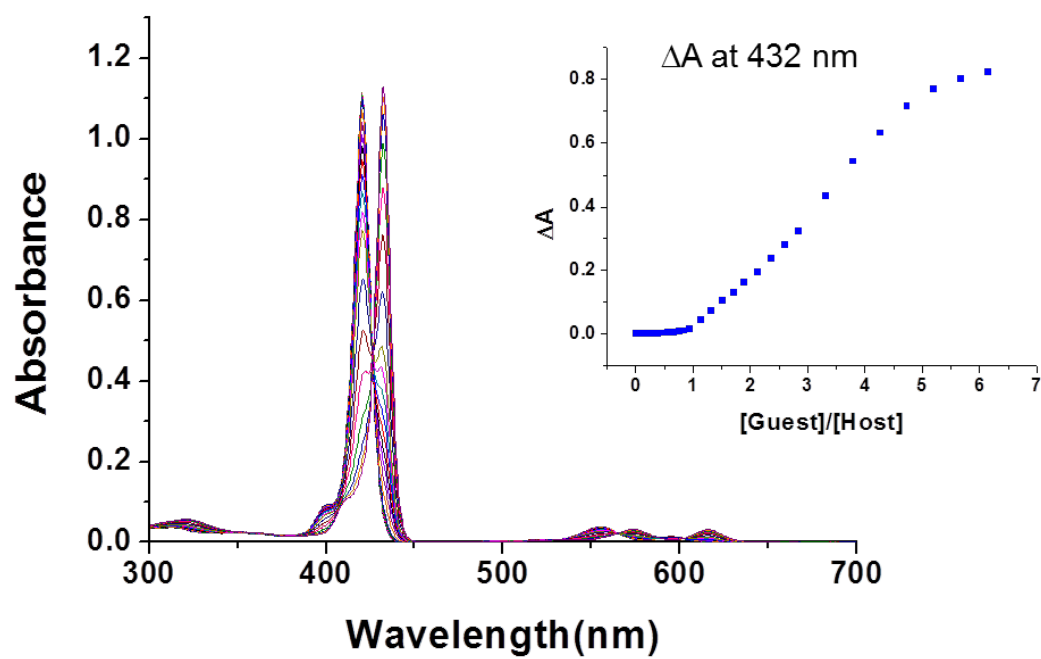


Figure S2. Spectroscopic titration of ZnTPP with CN^- in purified MeCN at 25 °C