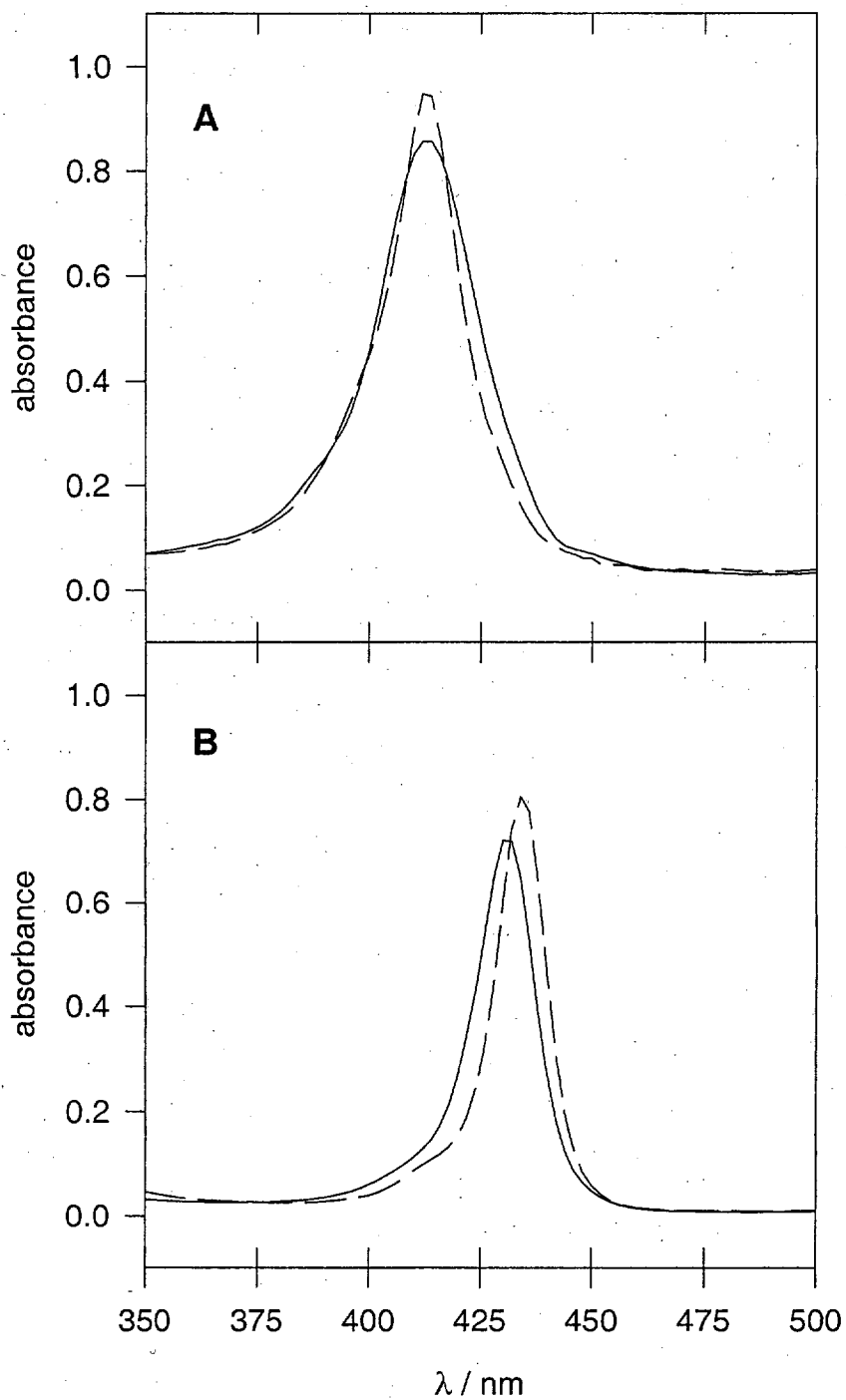


S1—Typical spectra obtained with a transparent Au film electrode with a SAM of 1-MDIm on its surface. Dashed line: Before exposure to CoTpivPP; electrode at open circuit. Solid line: After CoTpivPP was coordinated to the 1-MDIm coating as described in the text; electrode potential at -0.5 V. Both spectra were recorded with the electrode immersed in aqueous, argon-saturated 1 M NaClO₄. The differences between such pairs of spectra obtained at various potentials were used to prepare Figure 2.



S2—Solution spectra in 1:1 benzene-methanol under argon. (A) 4.15×10^{-6} M $\text{Co}^{\text{II}}\text{TpivPP}$ with (dashed curve) and without (solid curve) 7 mM imidazole. (B) As in (A) with 4.13×10^{-6} M $\text{Co}^{\text{III}}\text{TpivPP}^+$, prepared by adding 0.1 millimole of HClO_4 to the solution from (A), stirring under air for 3 hr and deaerating with argon.