Fig. 1S. Optical constants of Cu$_2$O substrates measured by spectroscopic ellipsometry in the spectra range of interest.

Fig. 2S. The absorbance spectra for CH$_3$CN solution that contained 20 mM LiClO$_4$, 0.4 mM Me$_{10}$CoCp$_2^+$ and 0.04 mM Me$_{10}$CoCp$_2$, which was diluted with CH$_3$CN by a factor of 50 relative to the solution used in the spectral response measurements.