

Fig. 1S. Optical constants of Cu<sub>2</sub>O substrates measured by spectroscopic ellipsometry in the spectra range of interest.

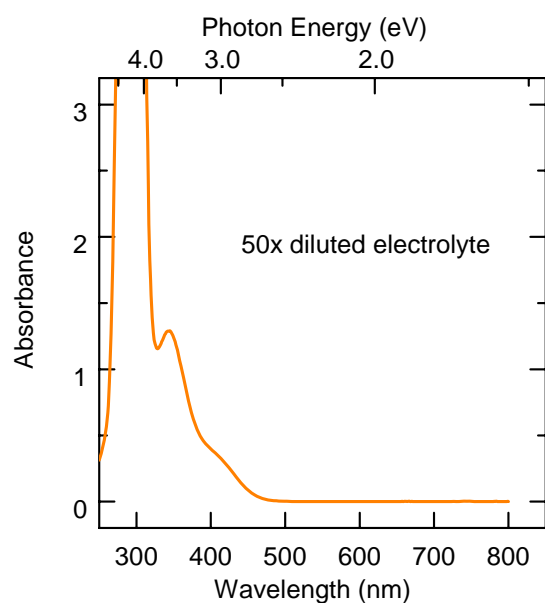


Fig. 2S. The absorbance spectra for CH<sub>3</sub>CN solution that contained 20 mM LiClO<sub>4</sub>, 0.4 mM Me<sub>10</sub>CoCp<sub>2</sub><sup>+</sup> and 0.04 mM Me<sub>10</sub>CoCp<sub>2</sub>, which was diluted with CH<sub>3</sub>CN by a factor of 50 relative to the solution used in the spectral response measurements.