

Electronic Supplementary Information

## Near-infrared absorbing porphyrin dyes with perpendicularly extended $\pi$ -conjugation for dye-sensitized solar cells

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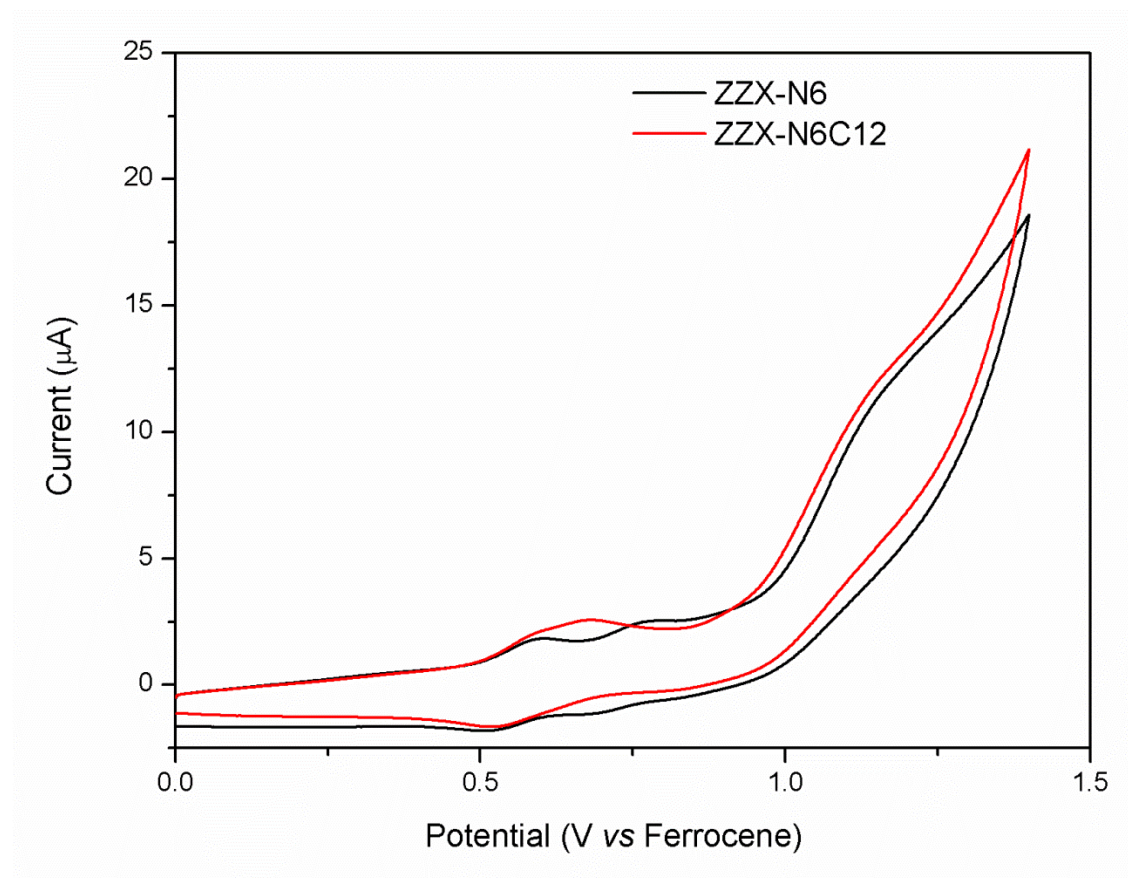


Fig. S1. Cyclic voltammetry (CV) spectra of two porphyrins