

## Supplementary Information

### Photovoltaic and Electrocatalytic Properties of Novel Ball-Type Phthalocyanines Bridged with four Dicumarol

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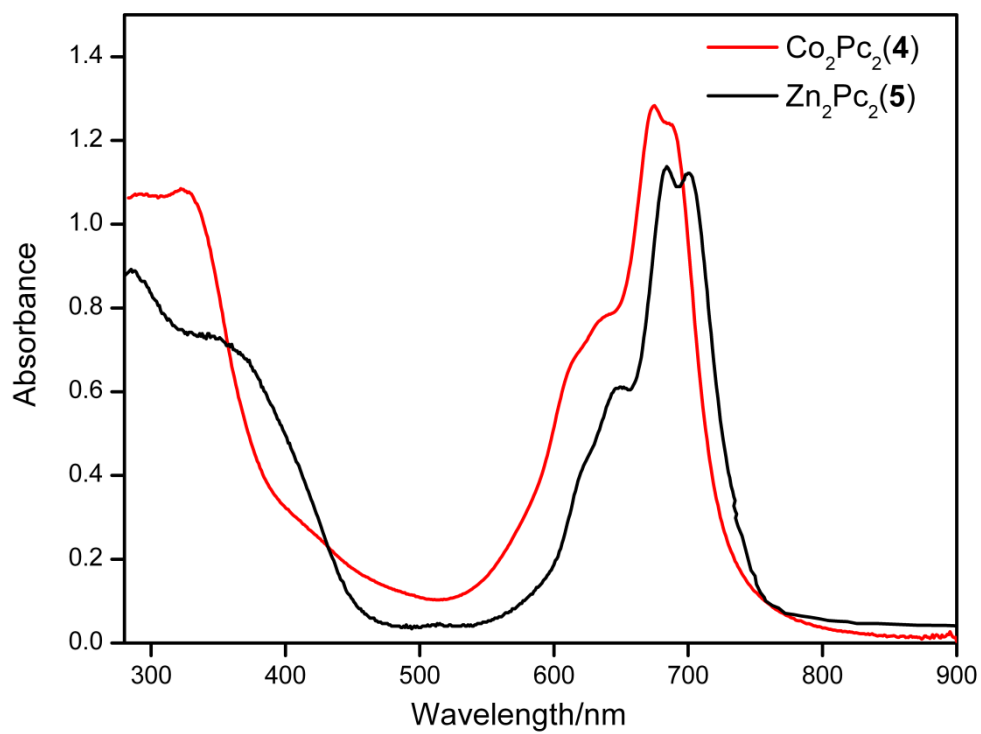


Fig. S1. Absorption spectra of  $5.0 \times 10^{-5}$  M compound 4 and 5 in DMSO

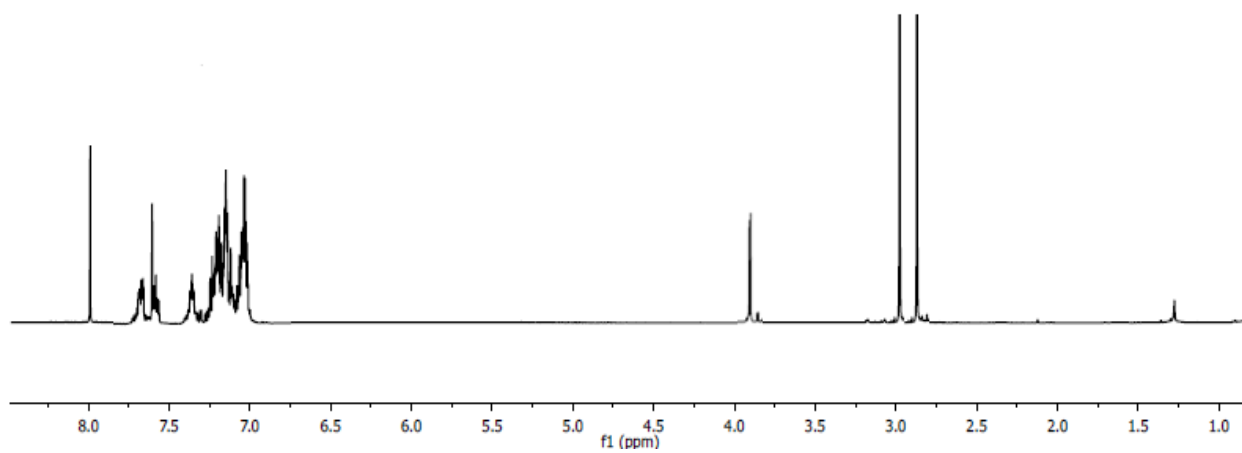


Fig. S2. <sup>1</sup>H-NMR spectrum of compound 5 in DMF.