Supporting Information

Triplet π-Diradical Dication of Directly meso-β-Linked Porphyrin Dimer

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1. ESR spectra of oxidized species of various oxidation stages at low temperature.
2. ESR spectra of mono(\(\pi\)-radical cation)s of (a) *meso*-\(\beta\) dimer 2 and reference monomers, (b) Zn(II) tetrakis(3,5-di-\(\text{tert}\)-butylphenyl)porphyrin and (c) Zn(II) tetramesitylporphyrin.
3. ESR spectra of bis(π-radical cation) of *meso*-β dimer 2 in CHCl₃ (top) and CH₂Cl₂ (bottom) at 10 K.
4. Temperature dependence of triplet ESR signal intensity in various solvent.

in CHCl₃

![Graph showing signal intensity vs. 1/T for CHCl₃](image)

The solid lines are fitting curves described in the manuscript.

in CH₂Cl₂

![Graph showing signal intensity vs. 1/T for CH₂Cl₂](image)