Dye-sensitized solar cell based on inclusion complex of cyclic porphyrin dimer bearing four 4-pyridyl groups and fullerene C_{60}

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Fig. S1 (a) $^1$H NMR and (b) $^{13}$C NMR of $\textbf{1}$ in CDCl$_3$. 
Fig. S2 H-H COSY of 1 in CDCl₃.
Fig. S3 (a) $^1$H NMR and (b) $^{13}$C NMR of 2 in pyridine-$d_5$. 
Fig. S4 H-H COSY of 2 in pyridine-$d_5$. 
Fig. S5 (a) $^1$H NMR and (b) $^{13}$C NMR of H$_4$-C$_4$-CPDPy(TEO) in CDCl$_3$. 
Fig. S6 H-H COSY of $\text{H}_4\text{-C}_4\text{-CPD}_{\text{Py}}(\text{TEO})$ in CDCl$_3$. 
Fig. S7 (a) Cyclic voltammograms (CV) and (b) differential pulse voltammograms (DPV) of H₄-C₄-CPD₉(TEO) in deaerated PhCN with 0.1 M Bu₄NPF₆ at room temperature. [H₄-C₄-CPD₉(TEO)] = 0.4 mM.

Fig. S8 (a) Cyclic voltammograms (CV) and (b) differential pulse voltammograms (DPV) of C₆₀⊂H₄-C₄-CPD₉(TEO) in deaerated PhCN with 0.1 M Bu₄NPF₆ at room temperature. [C₆₀⊂H₄-C₄-CPD₉(TEO)] = 0.4 mM.
**Fig. S9** (a) Cyclic voltammograms (CV) and (b) differential pulse voltammograms (DPV) of $\text{H}_4$-Ptz-CPD$_{py}$(TEO) in deaerated PhCN with 0.1 M Bu$_4$NPF$_6$ at room temperature. $[\text{H}_4$-Ptz-CPD$_{py}$(TEO)] = 0.4 mM. The oxidation wave at 0.27 V corresponds to phenothiazine unit.

**Fig. S10** (a) Cyclic voltammograms (CV) and (b) differential pulse voltammograms (DPV) of $\text{C}_60$-$\text{H}_4$-Ptz-CPD$_{py}$(TEO) in deaerated PhCN with 0.1 M Bu$_4$NPF$_6$ at room temperature. $[\text{C}_60$-$\text{H}_4$-Ptz-CPD$_{py}$(TEO)] = 0.4 mM. The oxidation wave at 0.3 V corresponds to phenothiazine unit.