Supplementary Information (ESI) for:

Synthesis and Photochemical Property of a New Molybdenum Porphycene Complex

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Controlled-potential electrolysis at – 0.96 V vs. $Fc/Fc^+$

b) $[\text{Mo}^\text{V}(\text{OEP})(\text{O})\text{Cl}]$

Controlled-potential electrolysis at – 0.76 V vs. $Fc/Fc^+$

**Fig. S1.** Thin-layer spectral changes of a) 1 and b) $[\text{Mo}^\text{V}(\text{OEP})(\text{O})\text{Cl}]$ during controlled-potential electrolysis at the first reduction potential in DMF containing 0.1 M TBAP.
a) UV-vis spectral change for 1

![UV-vis spectral change for 1](image)

b) UV-vis spectral change for [MoV(OEP)(O)Cl]

![UV-vis spectral change for [MoV(OEP)(O)Cl]](image)

**Fig. S2.** UV-vis spectral changes for the photochemical reduction of (a) 1 (1.0 × 10⁻⁵ M) and (b) [MoV(OEP)(O)Cl] (1.0 × 10⁻⁵ M), when these complexes were irradiated with visible light (>450 nm) for 9 hr under the same conditions.