

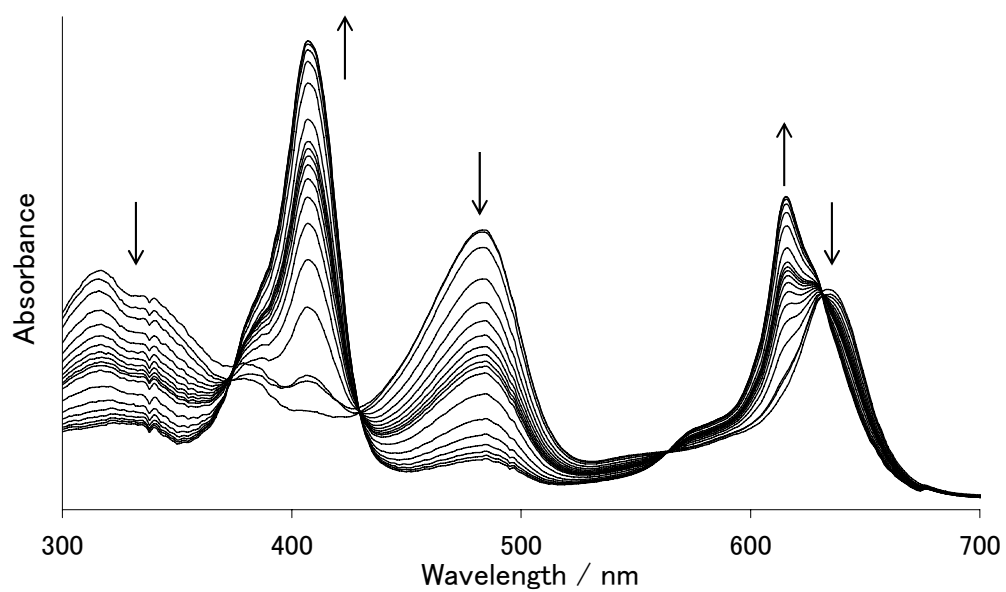
Supplementary Information (ESI) for:
Synthesis and Photochemical Property of a New Molybdenum
Porphycene Complex

Daisuke Maeda, Hisashi Shimakoshi, Masaaki Abe, and Yoshio Hisaeda*

Department of Chemistry and Biochemistry, Graduate School of Engineering,

Kyushu University, Fukuoka 819-0395, Japan

Controlled-potential electrolysis at $-0.96\text{ V vs. }Fc/Fc^+$



b) $[Mo^V(OEP)(O)Cl]$

Controlled-potential electrolysis at $-0.76\text{ V vs. }Fc/Fc^+$

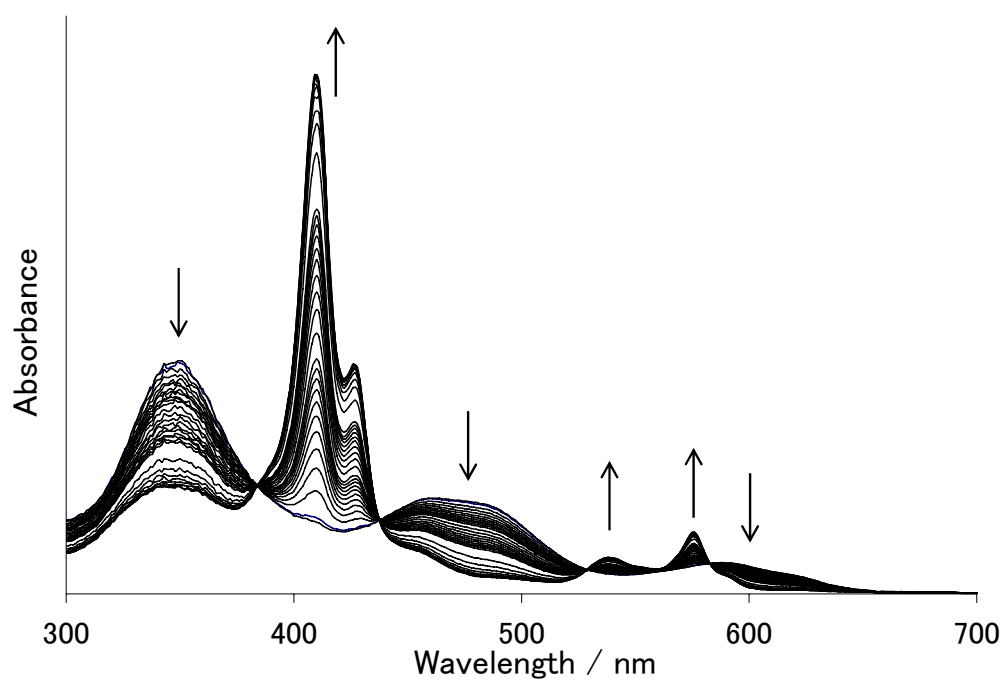
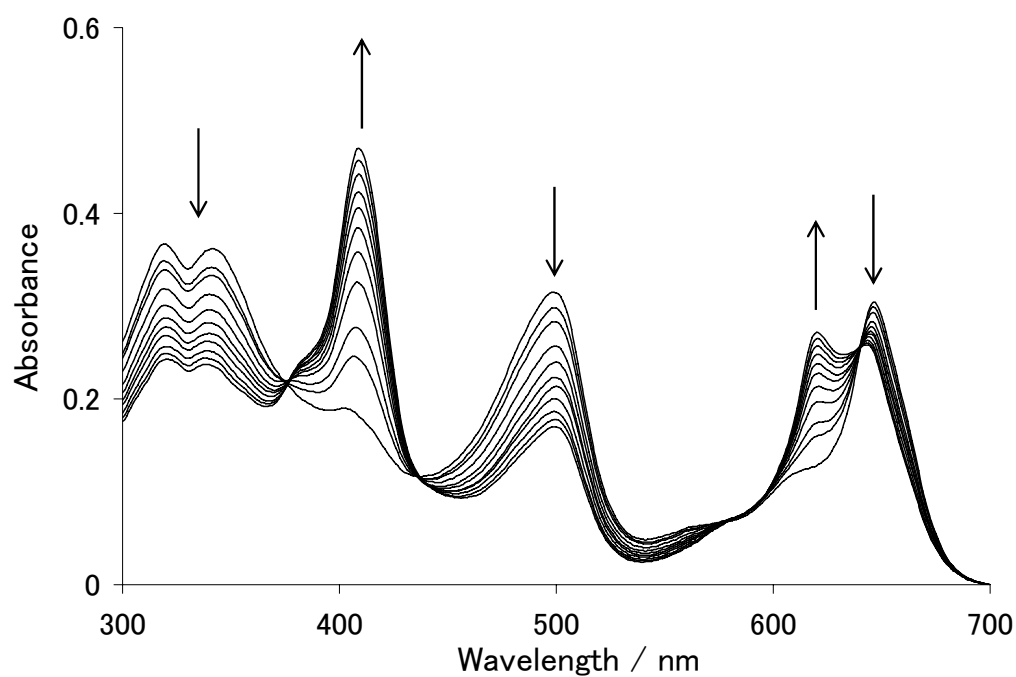


Fig. S1. Thin-layer spectral changes of a) **1** and b) $[Mo^V(OEP)(O)Cl]$ during controlled-potential electrolysis at the first reduction potential in DMF containing 0.1 M TBAP.

a) UV-vis spectral change for **1**



b) UV-vis spectral change for $[\text{Mo}^{\text{V}}(\text{OEP})(\text{O})\text{Cl}]$

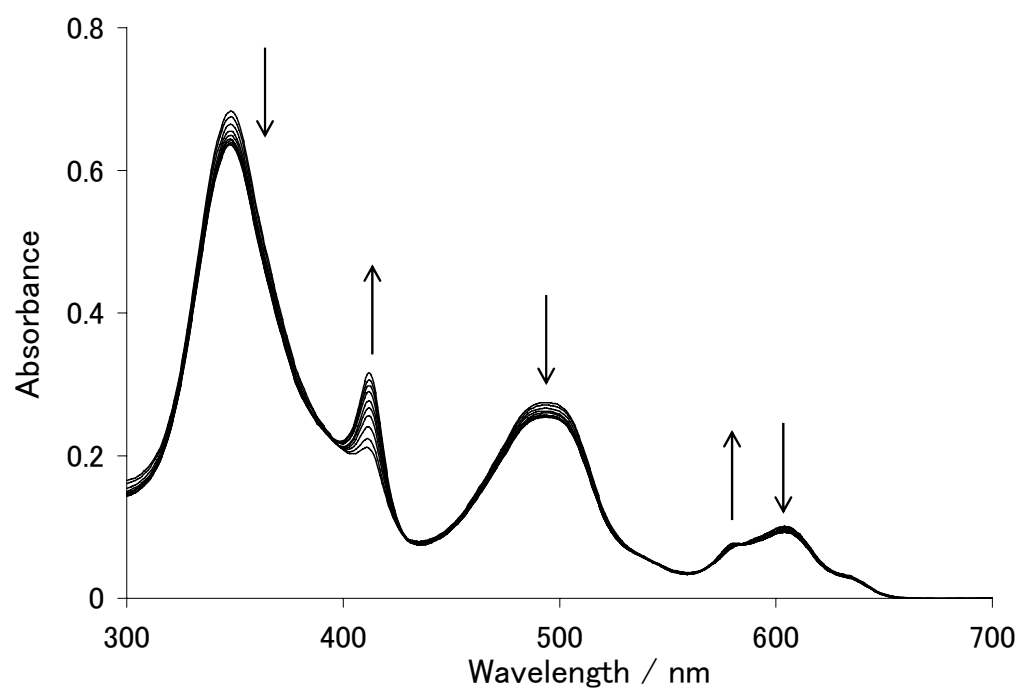


Fig. S2. UV-vis spectral changes for the photochemical reduction of (a) **1** (1.0×10^{-5} M) and (b) $[\text{Mo}^{\text{V}}(\text{OEP})(\text{O})\text{Cl}]$ (1.0×10^{-5} M), when these complexes were irradiated with visible light (>450 nm) for 9 hr under the same conditions.