

Supporting Information of

**Ruthenium(II) Complexes Incorporating the Bidentate Ligand
Containing Imidazolium Moiety: Synthesis, Characterization, and
Electrochemical Properties and Their Application for Visible-
Light induced Hydrogen-Evolving System**

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-CONTENTS-

Figure S1. Cyclic voltammograms of **1** and **2**.

Figure S2. ^1H and ^{13}C NMR spectra of **1**.

Figure S3. ^1H and ^{13}C NMR spectra of **2**.

Figure S4. TEOA quenching test.

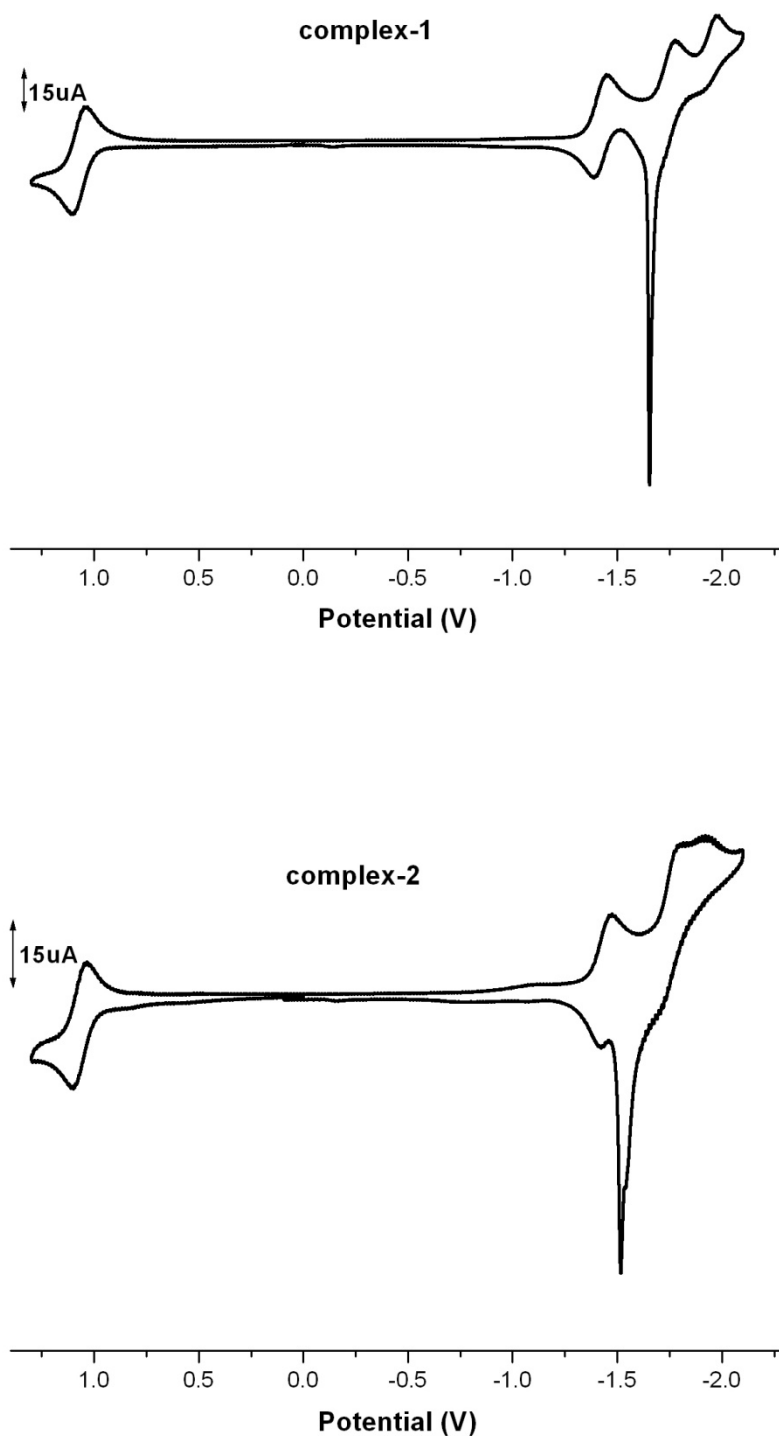


Figure S1. Cyclic voltammograms of Ru(II) complexes in 0.1 M Bu_4NPF_6 acetonitrile solution at room temperature. In the ruthenium(II) complexes, abnormal reduction peaks are thought to be caused by adsorption of irreversibly reduced complexes at the electrode surface.

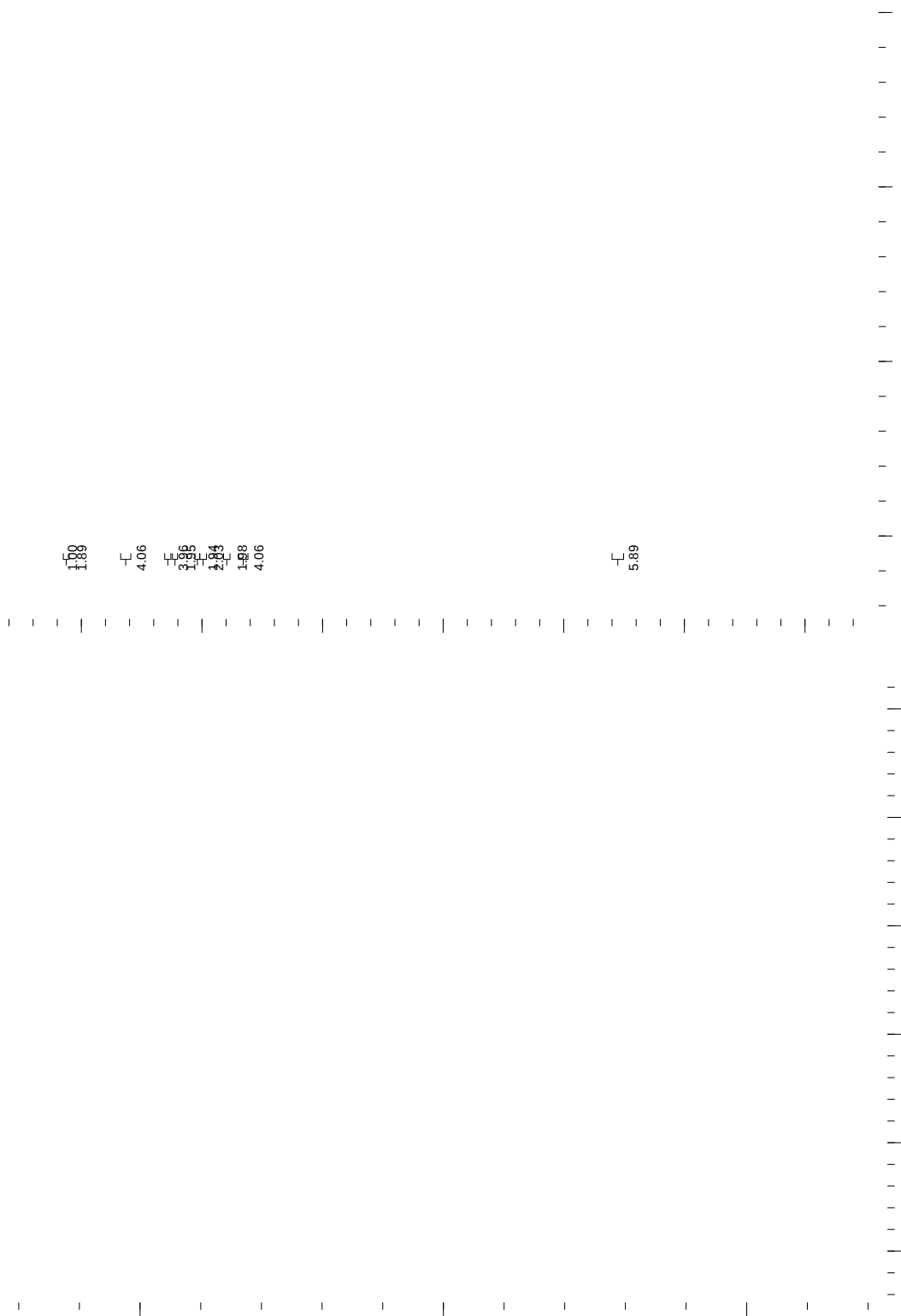


Figure S3. ^1H and ^{13}C NMR spectra of **2**.

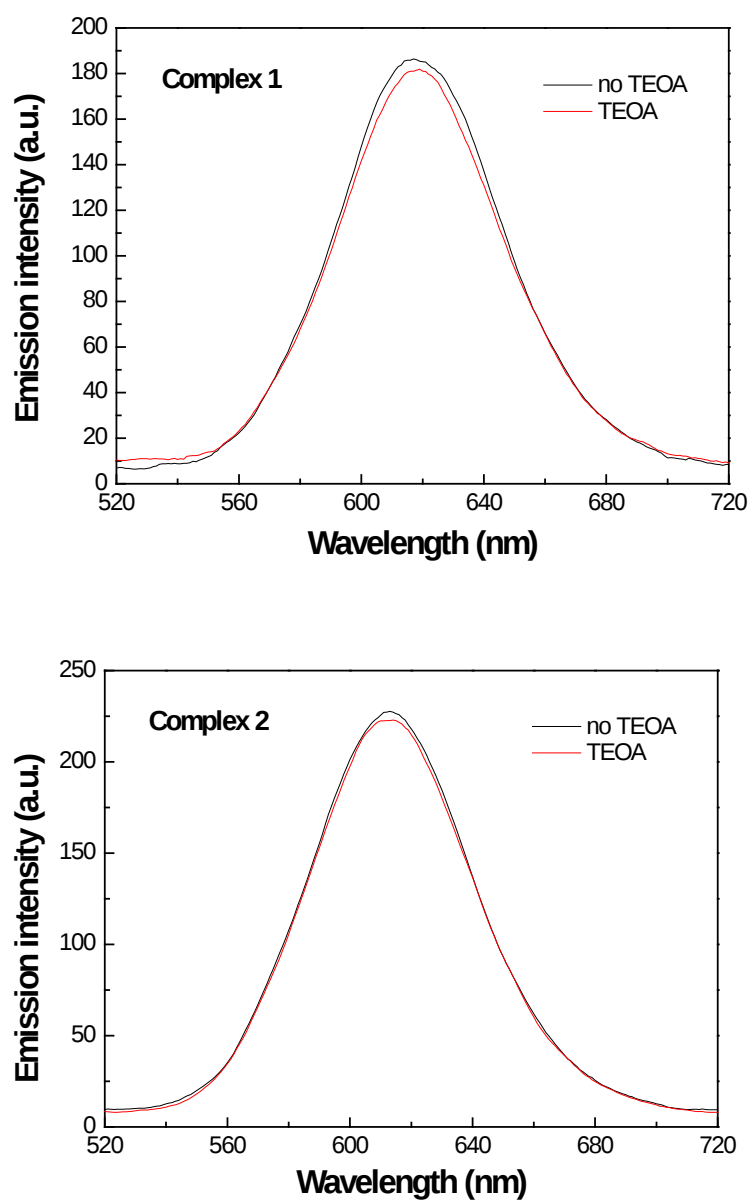


Figure S4. TEOA quenching test in CH₃CN/water mixture.