

(α -Diimine)tricarbonylhalorhenium complexes: The oxidation side

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Electronic supplementary information (ESI)

Figure S1: Cyclic voltammogram of $\text{Re}(\text{dab})(\text{CO})_3\text{Br}$ in $\text{CH}_2\text{Cl}_2/0.1 \text{ mol dm}^{-3} \text{Bu}_4\text{NPF}_6$, scan rate 100 mV s^{-1} .

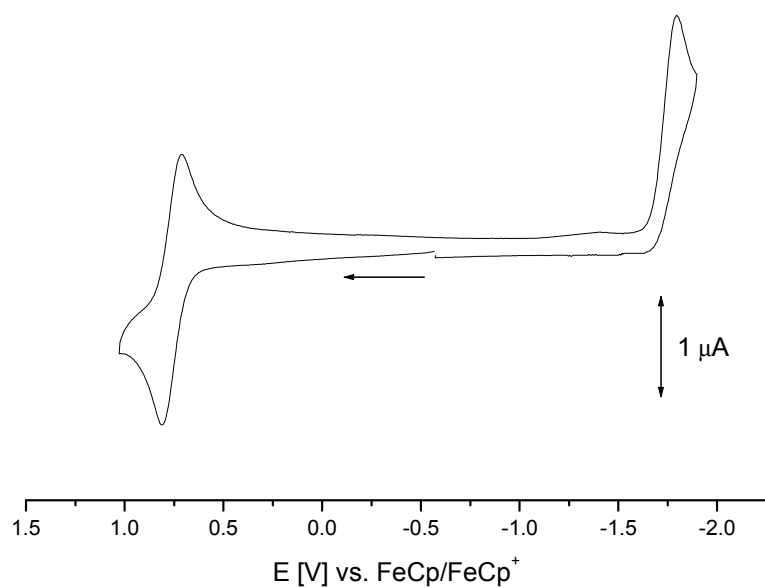


Figure S2: Cyclic voltammogram of $\text{Re}(\text{sdi})(\text{CO})_3\text{Cl}$ in $\text{CH}_2\text{Cl}_2/0.1 \text{ mol dm}^{-3} \text{Bu}_4\text{NPF}_6$, scan rate 100 mV s^{-1} .

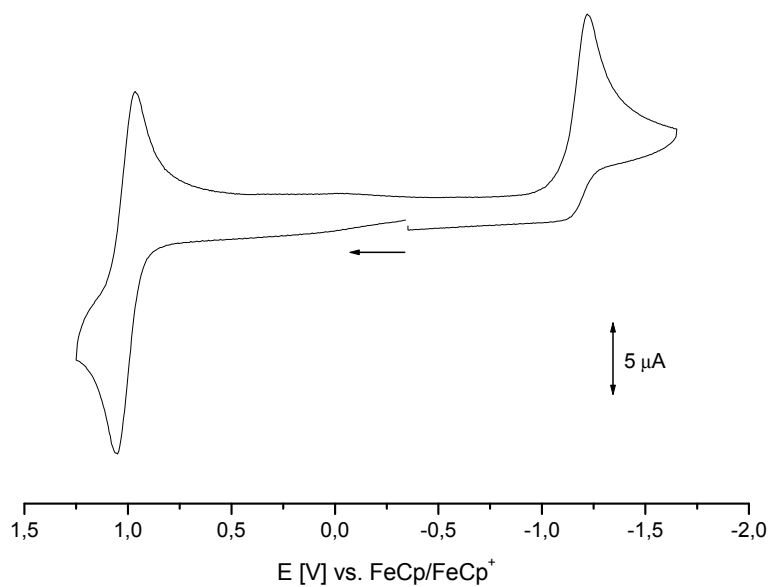


Figure S3: Cyclic voltammogram of $\text{Re(sdi)}(\text{CO})_3\text{Br}$ in $\text{CH}_2\text{Cl}_2/0.1 \text{ mol dm}^{-3} \text{ Bu}_4\text{NPF}_6$, scan rate 100 mV s^{-1} .

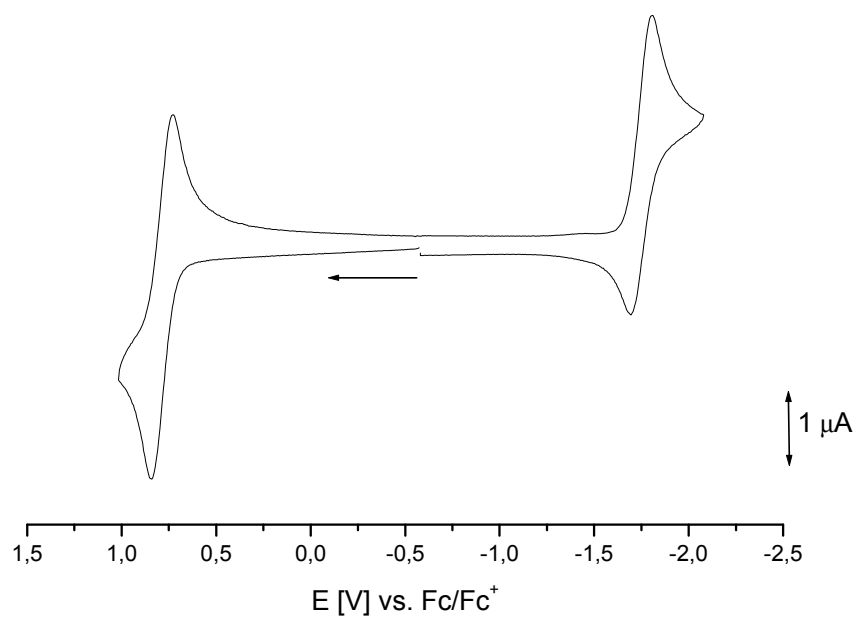


Figure S4 Molecular structure of **1** in the crystal

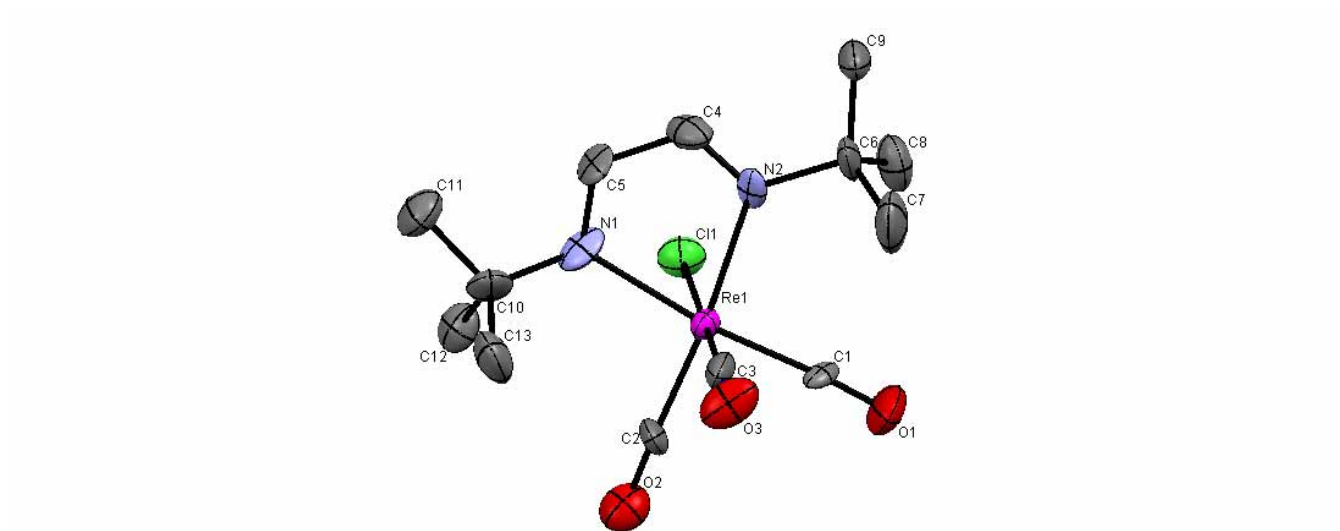


Figure S5. IR-spectroelectrochemical reduction of $[\text{Re}(\text{CO})_3\text{Cl}(\text{}^t\text{Bu-DAB})]$ in CH_3CN / 0.1 mol dm^{-3} Bu_4NPF_6 .

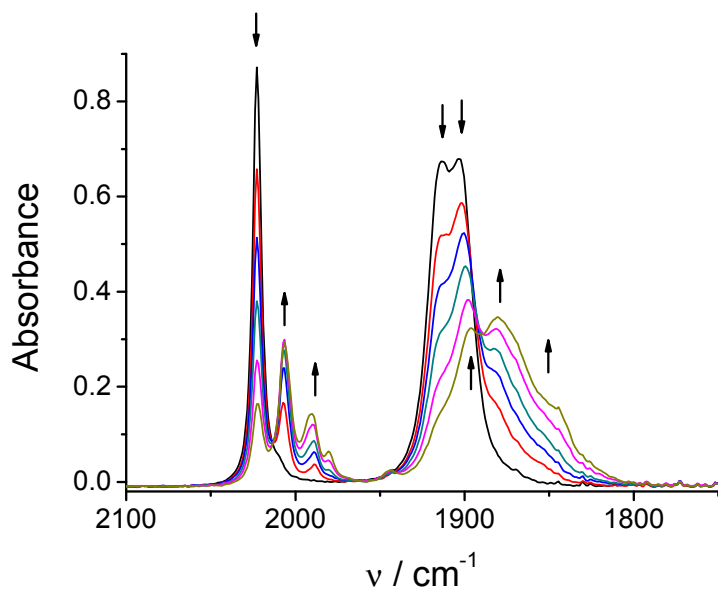


Figure S6. IR-spectroelectrochemical reduction of $[\text{Re}(\text{CO})_3\text{Cl}(\text{}^t\text{Bu-DAB})]$ in CH_3CN / 0.05 mol dm^{-3} Bu_4NPF_6 / 0.05 mol dm^{-3} Bu_4NCl

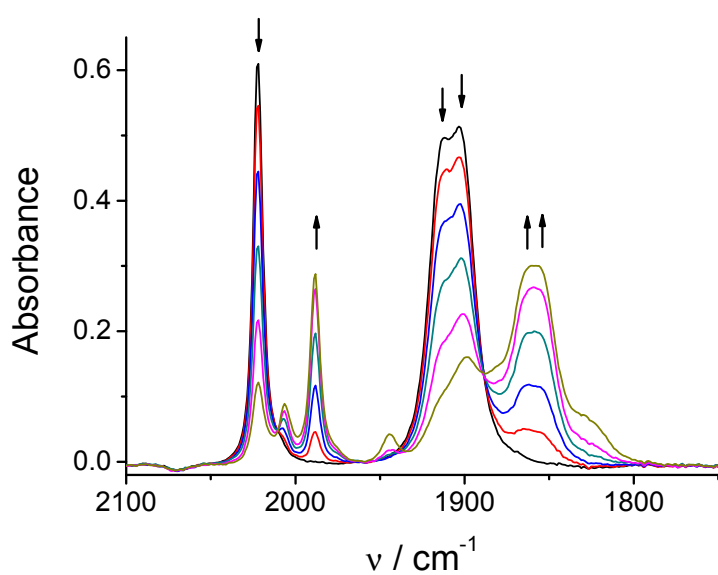


Figure S7 Shapes of FMOs of $[(^t\text{Bu-DAB})\text{Re}(\text{CO})_3\text{Cl}]$

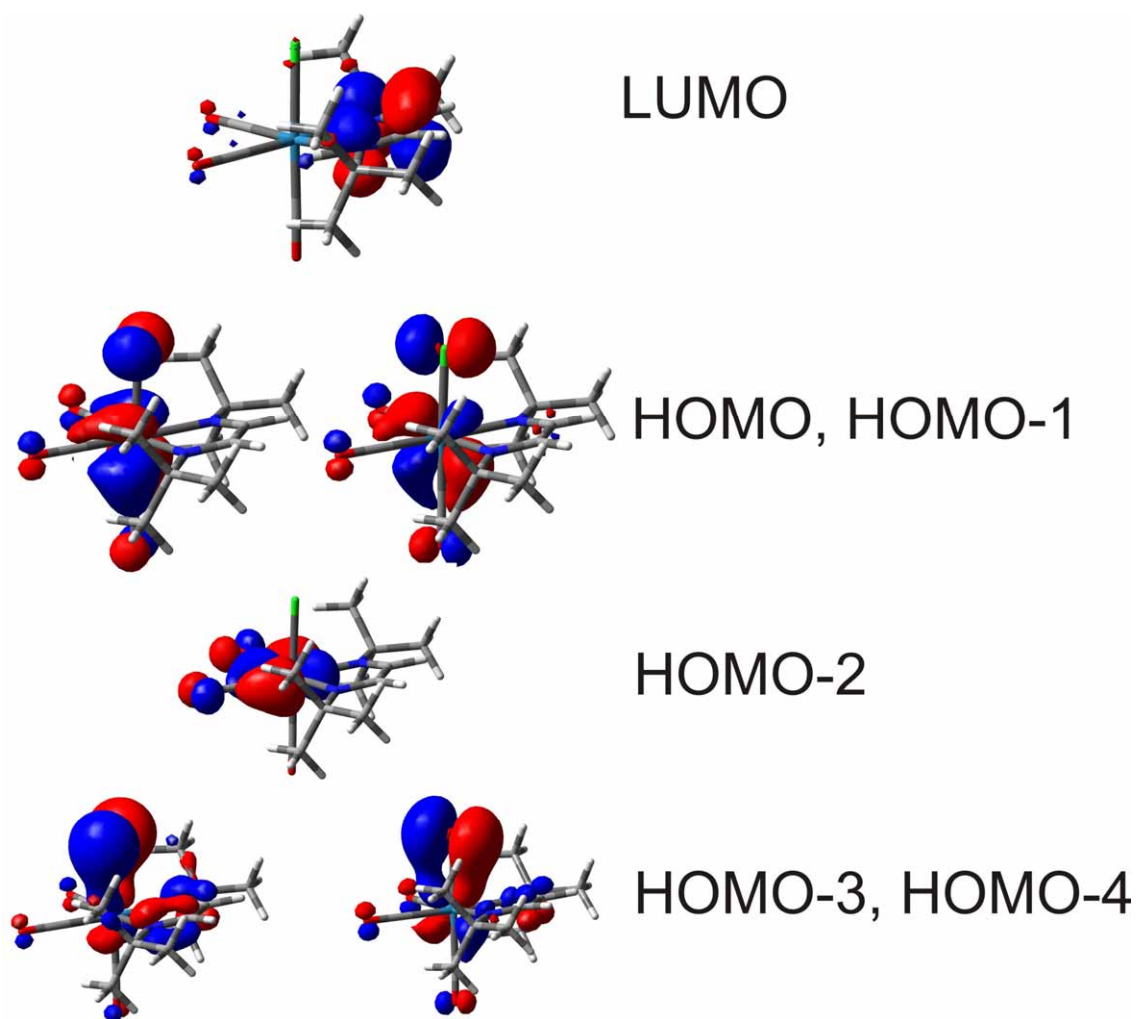


Figure S8 Shapes of FMOs of $[\text{Re}(\text{CO})_3\text{Cl}(\text{}^t\text{Bu-DAB})]^+$

