

Electronic Supplementary Information (ESI)

Synthesis and Electrochemical Characterization of Hexanuclear Platinum Bis-Pseudohalides.

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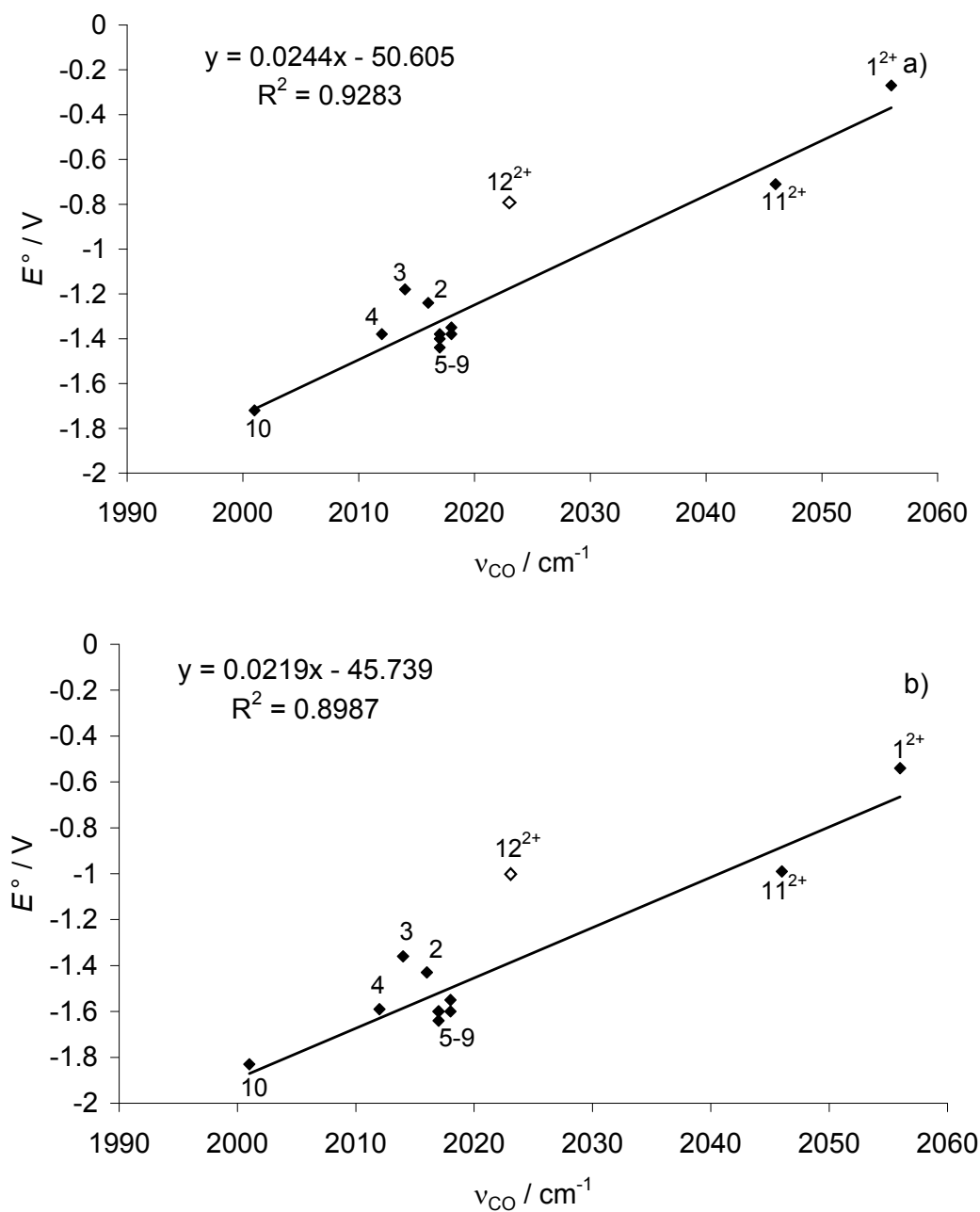


Figure 1S. Correlation between the experimental CO stretching frequencies and the a) first and b) second reduction potential values for clusters $[\{\text{Pt}_6\}\text{L}_2]^{n+}$. $\mathbf{12}^{2+}$ has been excluded from the regression and is shown as open symbol.

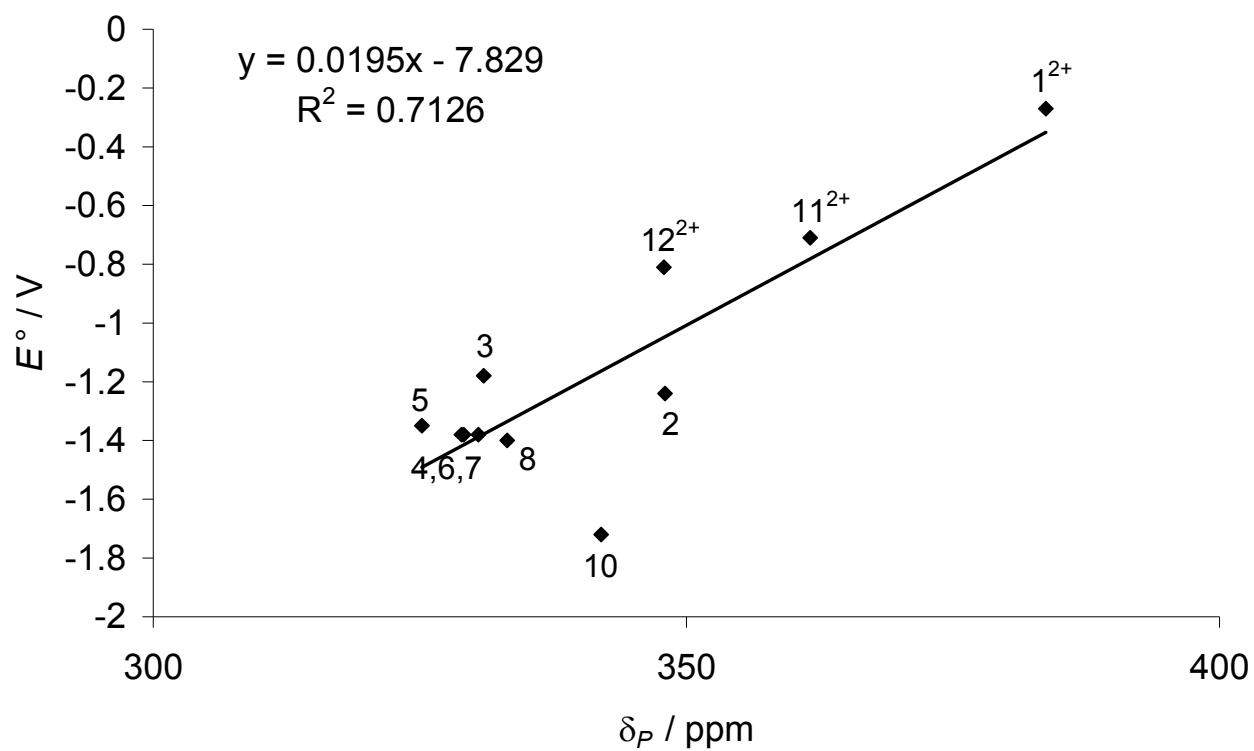


Figure 2S. First reduction potential values for clusters $[\{\text{Pt}_6\}\text{L}_2]^{n+}$ vs $^{31}\text{P}\{^1\text{H}\}$ NMR chemical shift.

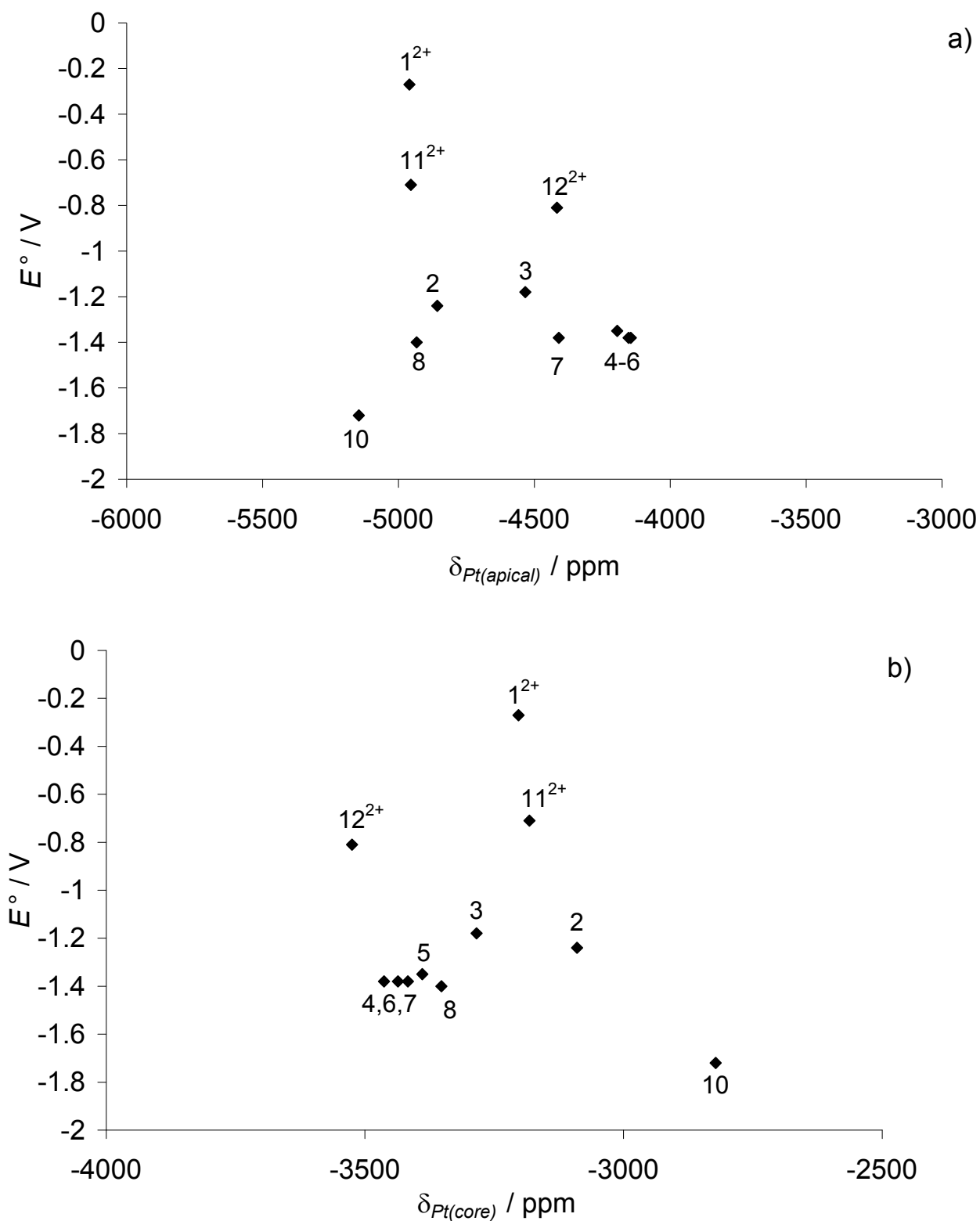


Figure 3S. First reduction potential values for clusters $[\{\text{Pt}_6\}\text{L}_2]^{n+}$ vs a) $^{195}\text{Pt}\{^1\text{H}\}$ NMR chemical shift assigned to the two apical Pt nuclei; b) $^{195}\text{Pt}\{^1\text{H}\}$ NMR chemical shift assigned to the four core Pt nuclei.

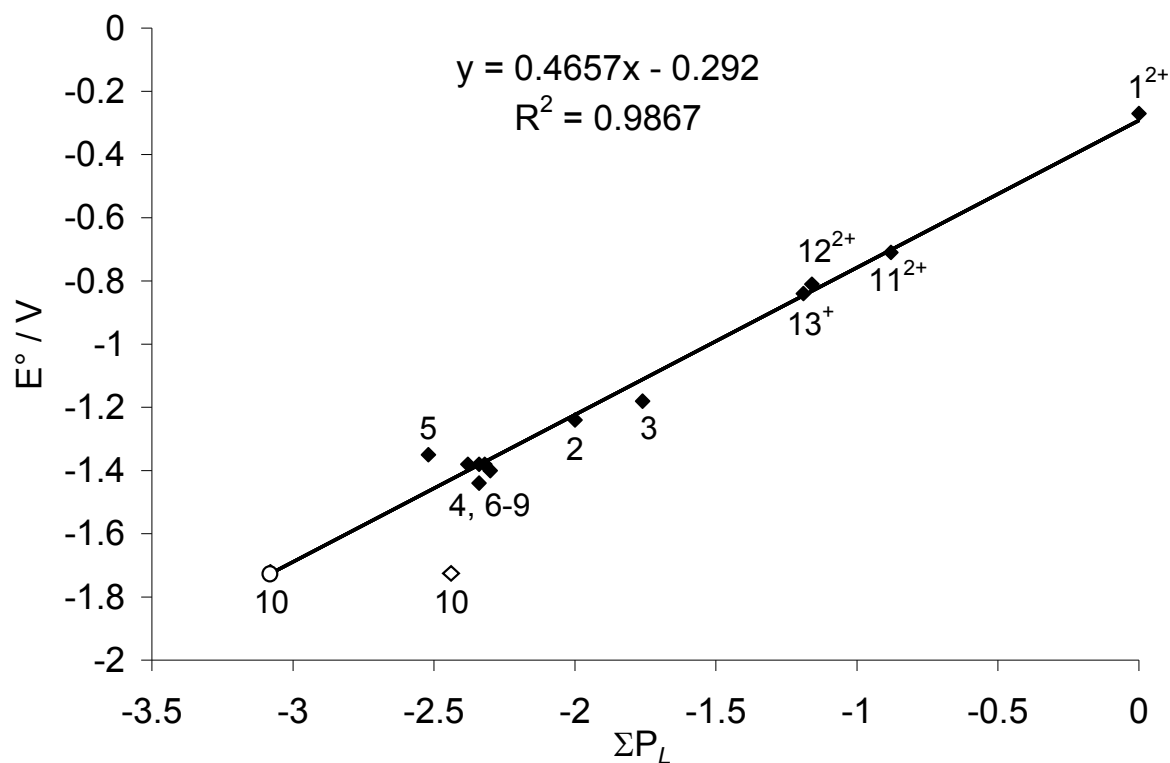


Figure 4S. Correlation between ΣP_L of apical ligands and the redox potential values for the first reduction of clusters $[\{\text{Pt}_6\}\text{L}_2]^{n+}$. $\{\text{Pt}_6\}(\text{H})_2$ has been excluded from the regression and is shown as open symbol. The extrapolated $2P_L$ for H⁺ is shown as an open circle.

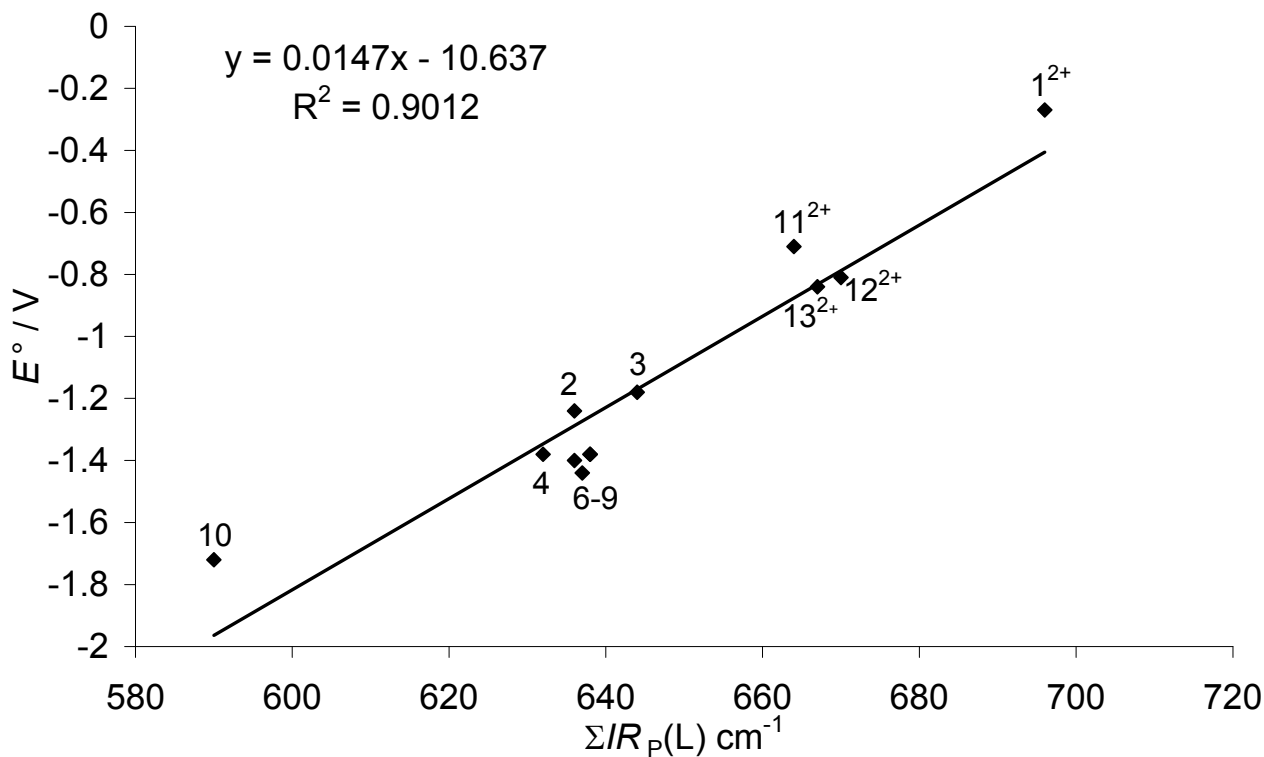


Figure 5S. Correlation between $\Sigma IR_P(L)$ of apical ligands and the redox potential values for the first reduction of clusters $[\{\text{Pt}_6\}\text{L}_2]^{n+}$.