

Electronic Supplementary Information

Pt(II) mono-carbonyl complexes of a cyclometallating 2-(2'-thienyl)-pyridinato-C,³N') ligand: nature and dynamics of the lowest excited state of the chloro- and thiolato- complexes

Yurii A. Kovalenkov, Alexander J. Blake, Michael W. George, Pavel Matousek,*

Mikhail Ya. Mel'nikov, Anthony W. Parker, Xue-Zhong Sun, Michael Towrie and

*Julia A. Weinstein**

Figure ESI-1.

Quenching of emission of Pt(thpy)(CO)Cl by benzyl viologen tetrafluoroborate (denoted as BzV²⁺) in deoxygenated CH₃CN at room temperature. The plot represents linear dependence of τ_0/τ vs. the concentration of the quencher, [BzV²⁺], where τ_0 is emission lifetime without the quencher. The rate constant of the bimolecular emission quenching, k_Q , of $7 \times 10^9 \text{ dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ was determined from this plot using Stern-Volmer equation $\tau_0/\tau = 1 + \tau_0 k_Q [\text{BzV}^{2+}]$.

