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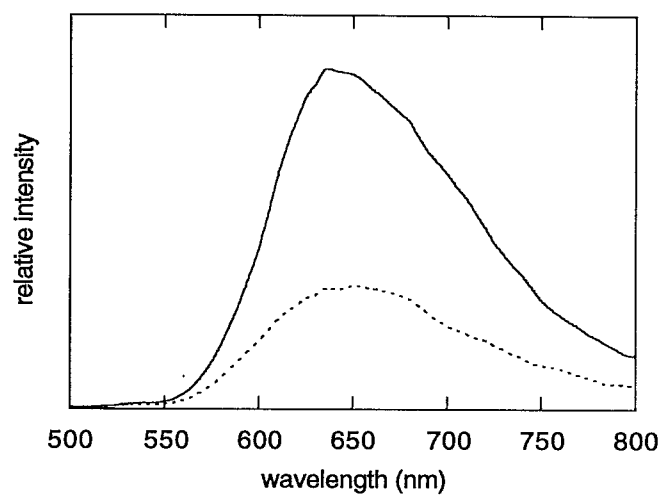


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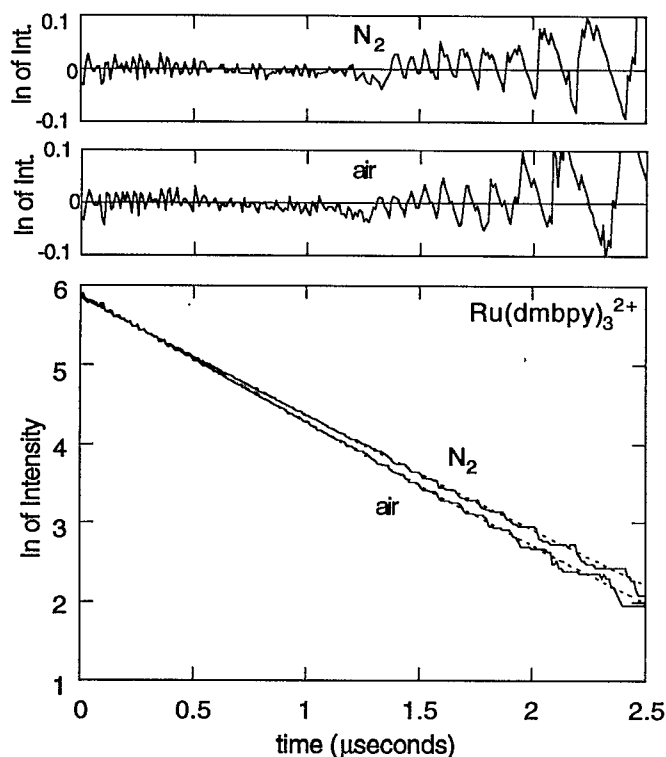
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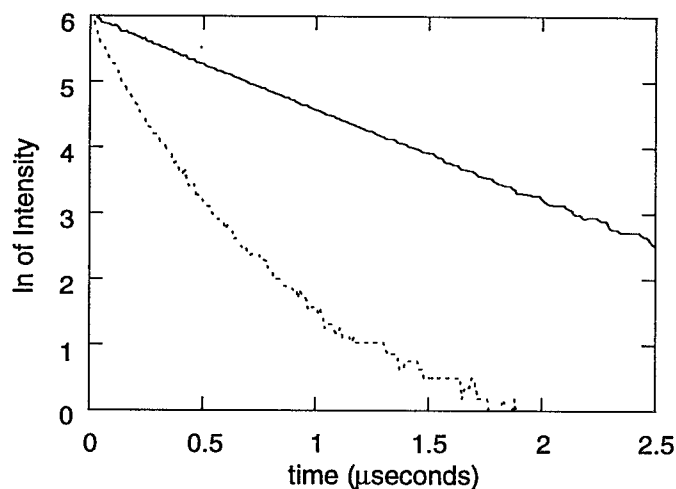
Supplementary Material Figure 1. Emission spectra at the beginning (-----) and end (——) of the titration of Ru(dmbpy)₃²⁺ with AC1106 shown in Figure 3b

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Supplementary Material Figure 2. Semilogarithmic plot of the luminescence decay trace of Ru(dmbpy)_3^{2+} ($1.3 \times 10^{-5} \text{ M}$) in the presence of AC1106 ($2.0 \times 10^{-5} \text{ M}$ in Ab binding sites) in N_2 and air-saturated PBS. As determined by the residuals shown above each plot, the luminescence decay traces of these species gave a satisfactory fit (----) to a single-exponential decay process assigned to the fully bound metal complex. Excited state lifetimes for these species are given in Table 1.

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Supplementary Material Figure 3. Semilogarithmic plot of the luminescence decay trace of the AC1106-bound $\text{Ru(dmbpy)(bpy)}_2^{2+}$ ($1.4 \times 10^{-5} \text{ M}$) in the absence (—) and presence (----) of methyl viologen ($3.4 \times 10^{-3} \text{ M}$) in air-saturated PBS. The upper linear trace corresponds to the single-exponential luminescence decay process before the addition of methyl viologen and is assigned, as in Figure 5, to the antibody-bound $\text{Ru(dmbpy)(bpy)}_2^{2+}$. The curved nature of the lower plot, seen in the presence of high concentrations of methyl viologen, clearly indicates the presence of more than one component.