

SUPPORTING INFORMATION

Photoinduced electron transfer in a molecular dyad by nanosecond pump-pump-probe spectroscopy

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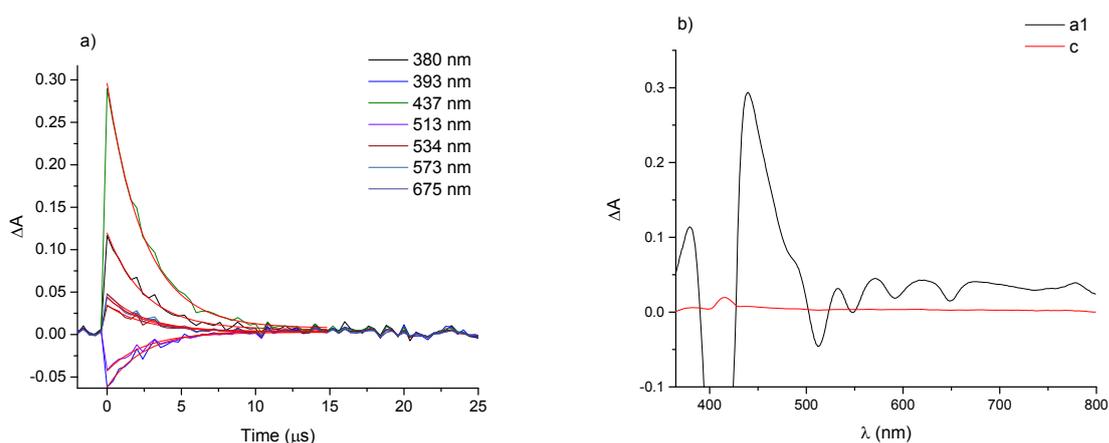


Figure S1. (a) Transient absorption decays at selected wavelengths of $\text{H}_2\text{P-Ru}_{\text{cat}}$ ($6.5 \mu\text{M}$) in $\text{CH}_3\text{CN/acetone}$ (50:50) at short time scale after single-pulse excitation at 515 nm. (b) Decay Associated Difference Spectra: a_1 is the spectrum associated with 2.6 μs decay (black line), c are the spectral changes due to the non-decaying contribution (red line).

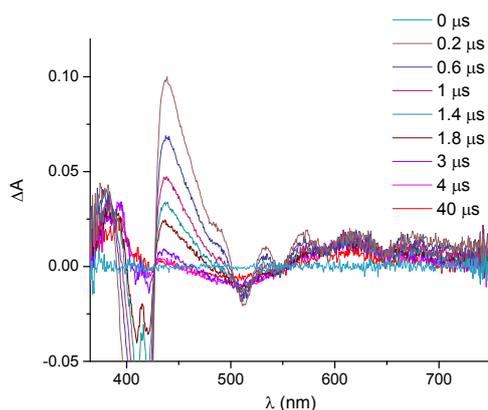


Figure S2. Transient absorption spectra of $\text{H}_2\text{P-Ru}_{\text{cat}}$ ($6.5 \mu\text{M}$) and MV^{2+} (10 mM) in $\text{CH}_3\text{CN/acetone}$ (50:50) in various delay times after double-pulse excitation at 515 nm.

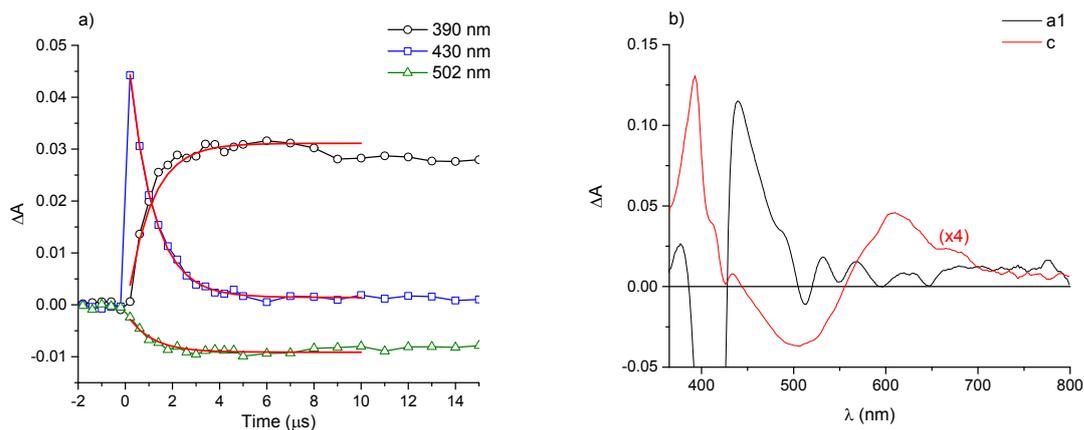


Figure S3. (a) Transient absorption decays at selected wavelengths of $\text{H}_2\text{P-Ru}_{\text{cat}}$ ($6.5 \mu\text{M}$) and MV^{2+} (10 mM) in $\text{CH}_3\text{CN}/\text{acetone}$ (50:50) at short time scale after double-pulse excitation at 515 nm. (b) Decay Associated Difference Spectra: a_1 is the spectrum associated with 1.1 μs decay (black line), c are the spectral changes due to the non-decaying contribution (red line).

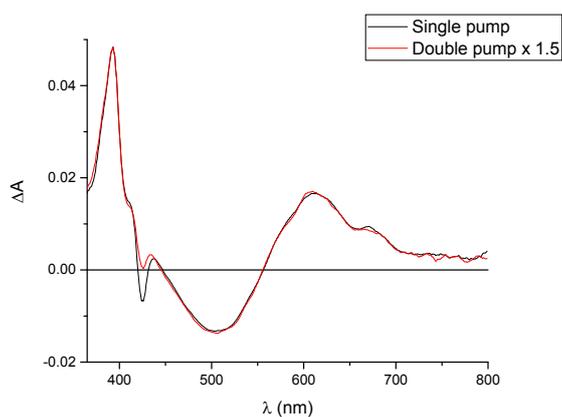


Figure S4. DADS spectra associated with 1.1 μs decay time after single-pulse and double-pulse excitations.

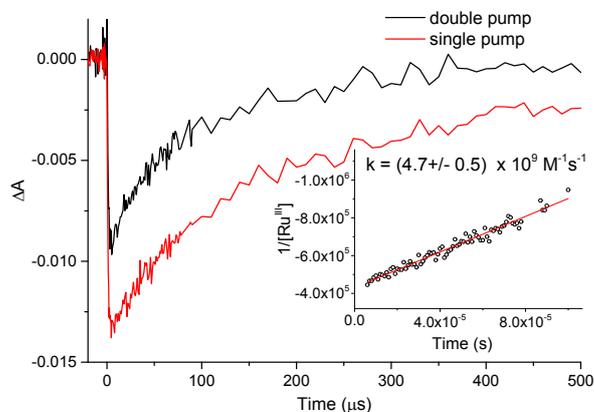


Figure S5. Transient absorption decays at 500 nm of $\text{H}_2\text{P-Ru}_{\text{cat}}$ ($6.5 \mu\text{M}$) and MV^{2+} (10 mM) in $\text{CH}_3\text{CN}/\text{acetone}$ (50:50) at long time scale after single-pulse and double-pulse excitation at 515

nm. Inset: Kinetic trace of the sample at 500 nm plotted as $1/[\text{Ru}^{\text{III}}]$ vs. time after double-pulse excitation.