

Supporting Information for: Photoinduced Electron-Transfer within Osmium(II) and Ruthenium(II) *bis*-Terpyridine Donor Acceptor Dyads

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1). Transient absorption spectra of $Ru(tpy)_2^{2+}$ -benzoquinone dyad **5** and $Os(tpy)_2^{2+}$ -benzoquinone dyad **8**.

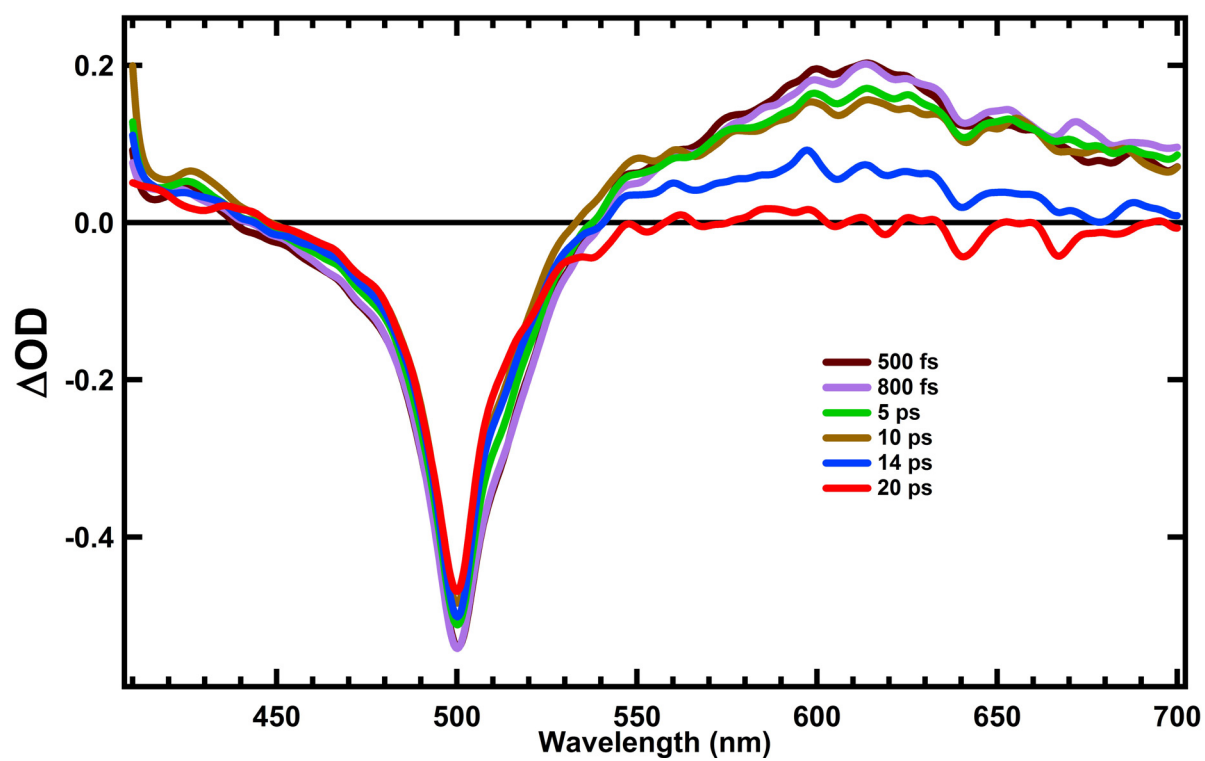


Figure S1. A series of representative transient absorption spectra are shown for **5** in acetonitrile as a function of time.

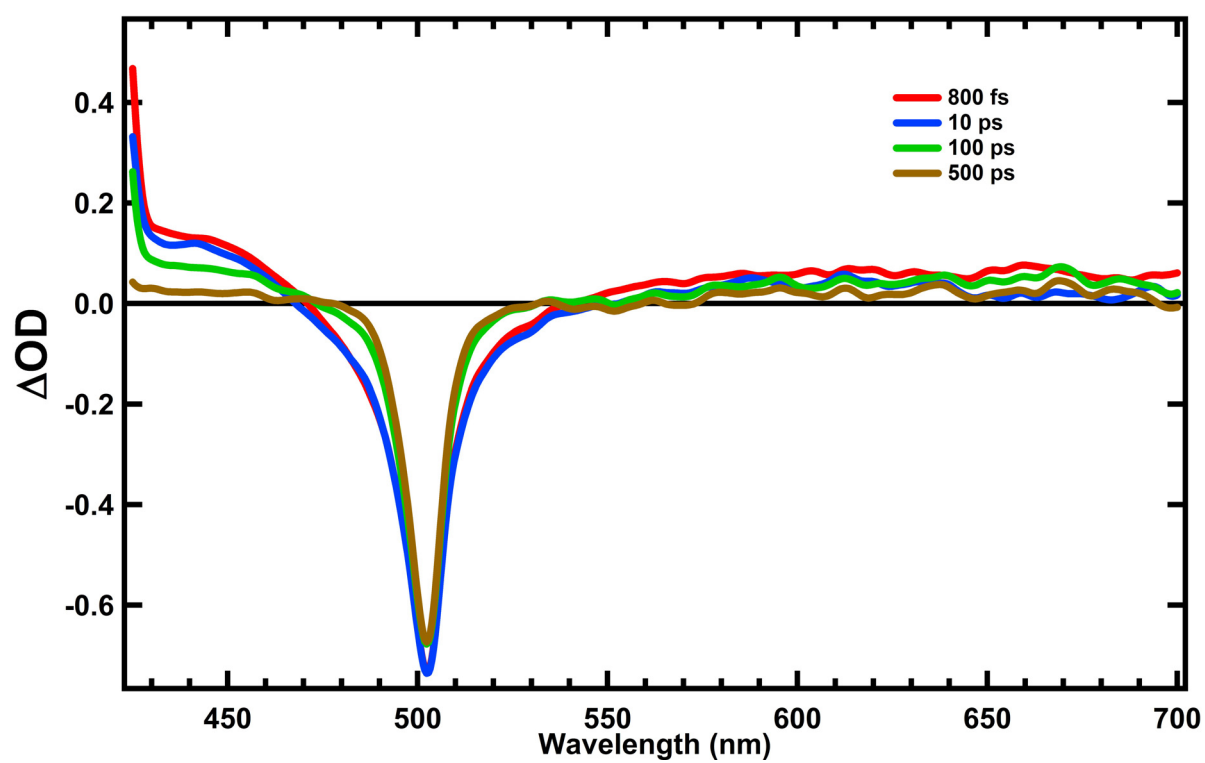


Figure S2. A series of representative transient absorption spectra are shown for **8** in acetonitrile as a function of time.

2) Time-resolved spectra of $Ru(tpy)_2^{2+}$ -benzoquinone dyad **5** at 515 nm (growth) and 600 nm (decay).

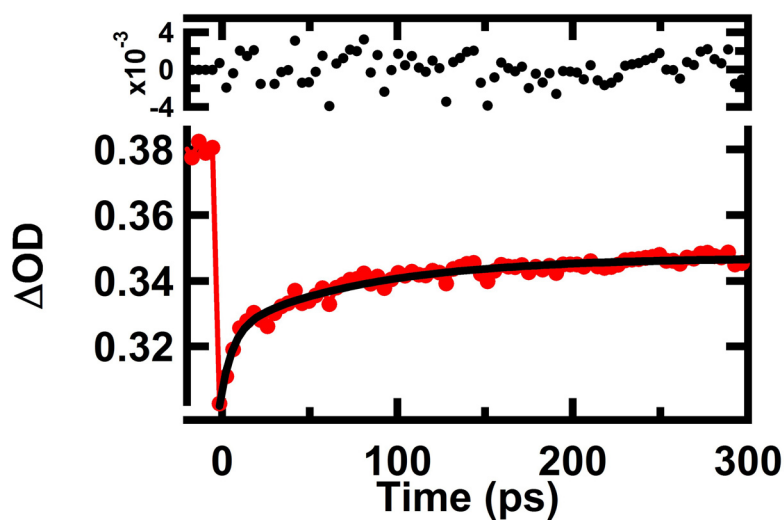


Figure S3. Time-resolved spectra taken at 515 nm (λ_{ex} 500 nm) for **5** in acetonitrile as a function of time.

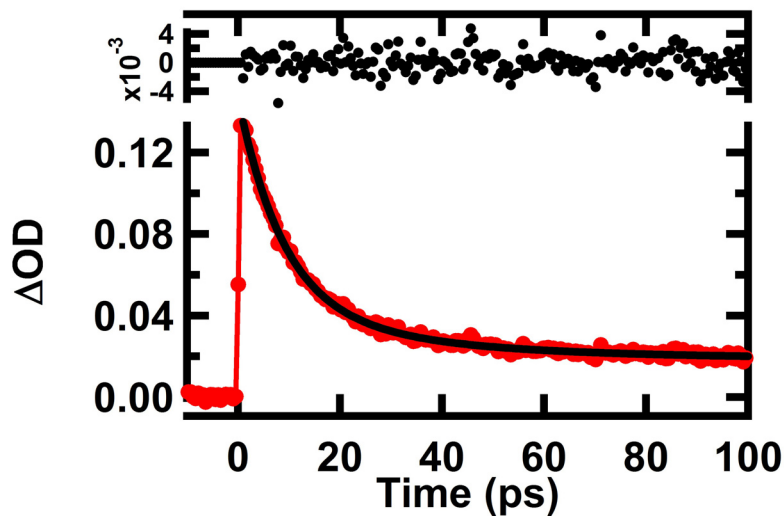


Figure S4. Time-resolved spectra taken at 600 nm (λ_{ex} 500 nm) for **5** in acetonitrile as a function of time.

3) Time-resolved spectra of $Ru(tpy)_2^{2+}$ -benzoquinone dyad **6** at 515 nm (growth) and 600 nm (decay).

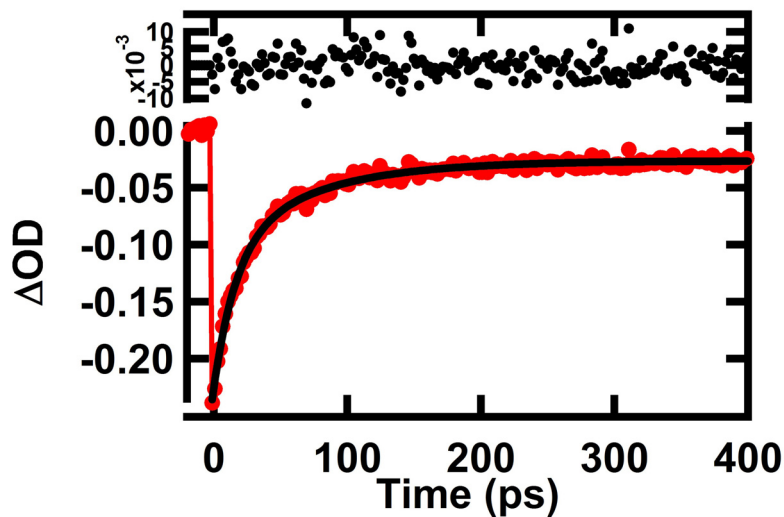


Figure S5. Time-resolved spectra taken at 515 nm (λ_{ex} 500 nm) for **6** in acetonitrile as a function of time.

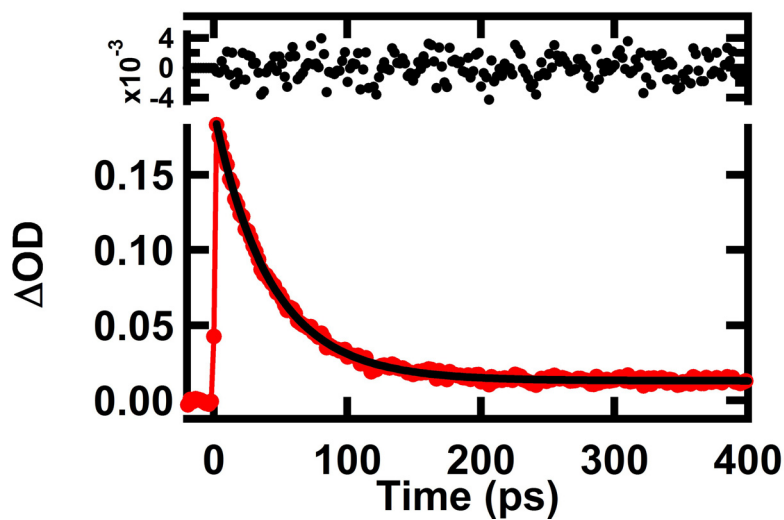


Figure S6. Time-resolved spectra taken at 600 nm (λ_{ex} 500 nm) for **6** in acetonitrile as a function of time.

4) Time-resolved spectra of $Os(tpy)_2^{2+}$ -benzoquinone dyad **7** at 430 nm (decay), 520 nm (growth) and 600 nm (decay).

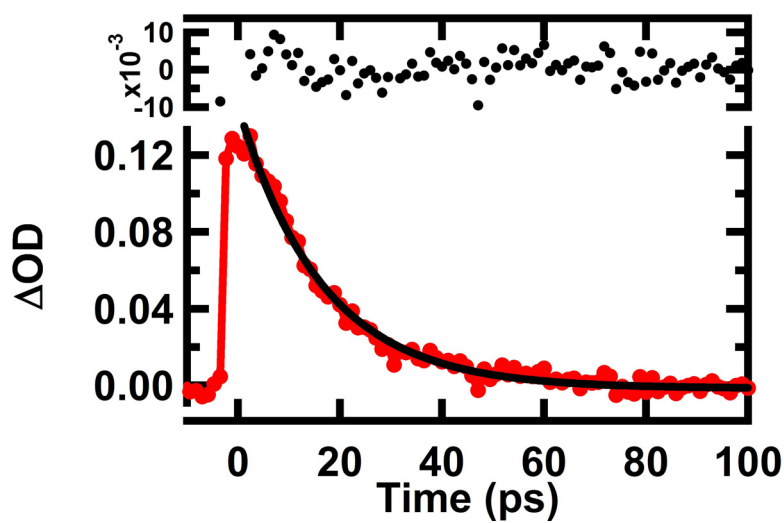


Figure S8. Time-resolved spectra taken at 430 nm (λ_{ex} 480 nm) for **7** in acetonitrile as a function of time.

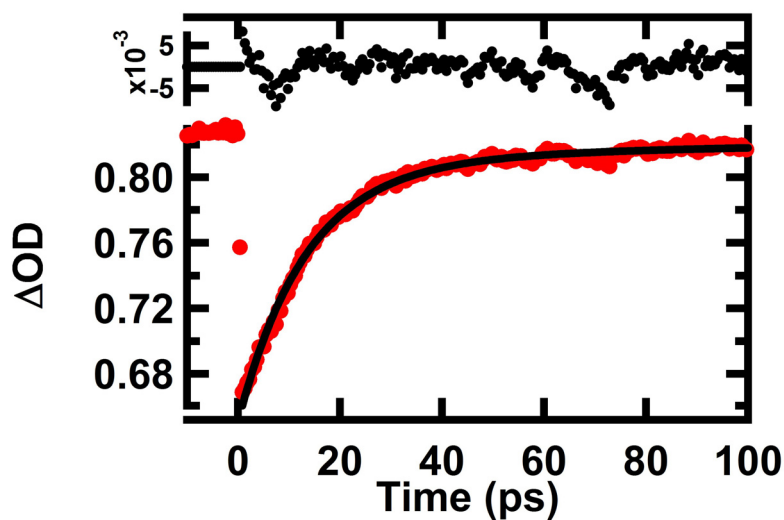
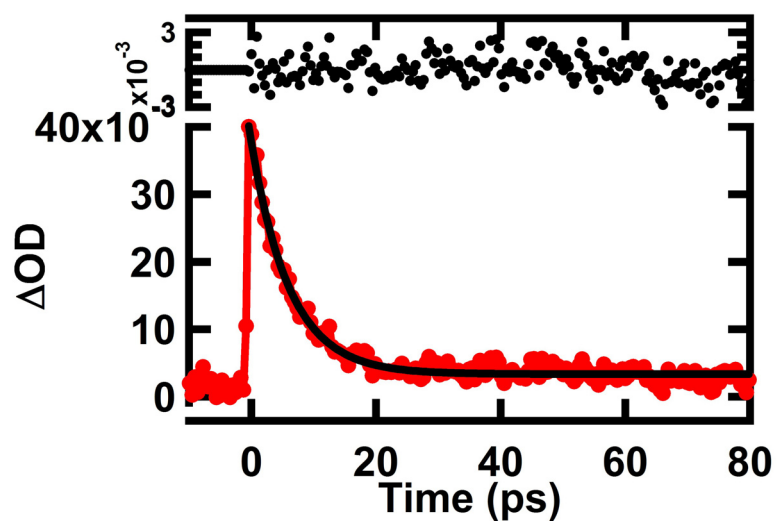
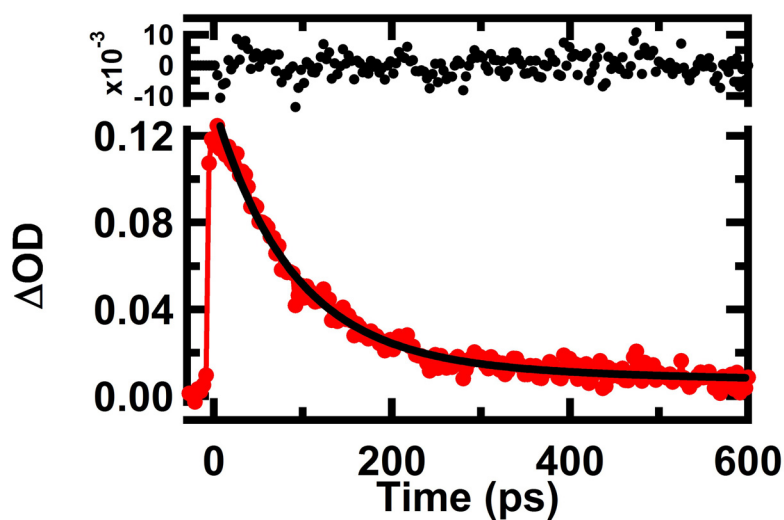


Figure S9. Time-resolved spectra taken at 520 nm (λ_{ex} 480 nm) for **7** in acetonitrile as a function of time.

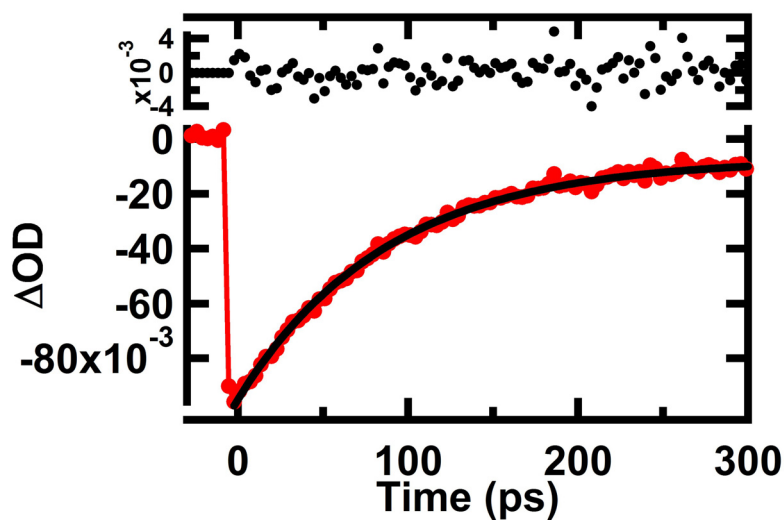


a **Figure S10.** Time-resolved spectra taken at 600 nm (λ_{ex} 480 nm) for 7 in acetonitrile as function of time.

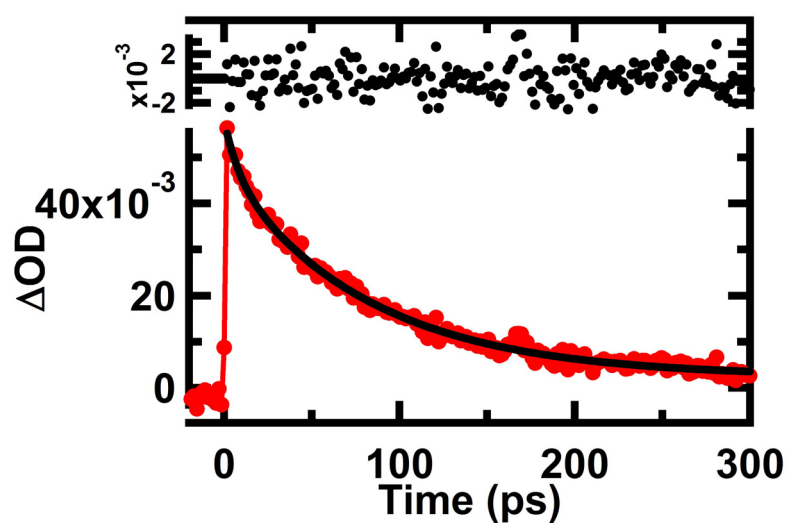
5) Time-resolved spectra of $\text{Os}(\text{tpy})_2^{2+}$ -benzoquinone dyad **8** at 430 nm (decay), 520 nm (growth) and 600 nm (decay).



a **Figure S11.** Time-resolved spectra taken at 430 nm (λ_{ex} 480 nm) for **8** in acetonitrile as function of time.



a **Figure S12.** Time-resolved spectra taken at 520 nm (λ_{ex} 480 nm) for **8** in acetonitrile as function of time.



a **Figure S13.** Time-resolved spectra taken at 600 nm (λ_{ex} 480 nm) for **8** in acetonitrile as function of time.