

Ru-TAP complexes with btz and pytz ligands: novel candidates as photooxidizing agents

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Supplementary information

SI1. ¹H NMR (298K, 300MHz) spectrum of **2** in CD₃OD.

SI2. ¹³C NMR (298K, 75MHz) spectrum of **2** in *d*₆-DMSO.

SI3. COSY NMR (298K, 300MHz) spectrum of **2** in *d*₆-DMSO.

SI4. HSQC NMR (298K, 300MHz) spectrum of **2** in *d*₆-DMSO.

SI5. ¹H NMR (298K, 600MHz) spectrum of **4** in CD₃OD.

SI6. ¹³C NMR (298K, 150MHz) spectrum of **4** in CD₃OD.

SI7. COSY NMR (298K, 600MHz) spectrum of **4** in CD₃OD.

SI8. HSQC NMR (298K, 600MHz) spectrum of **4** in CD₃OD.

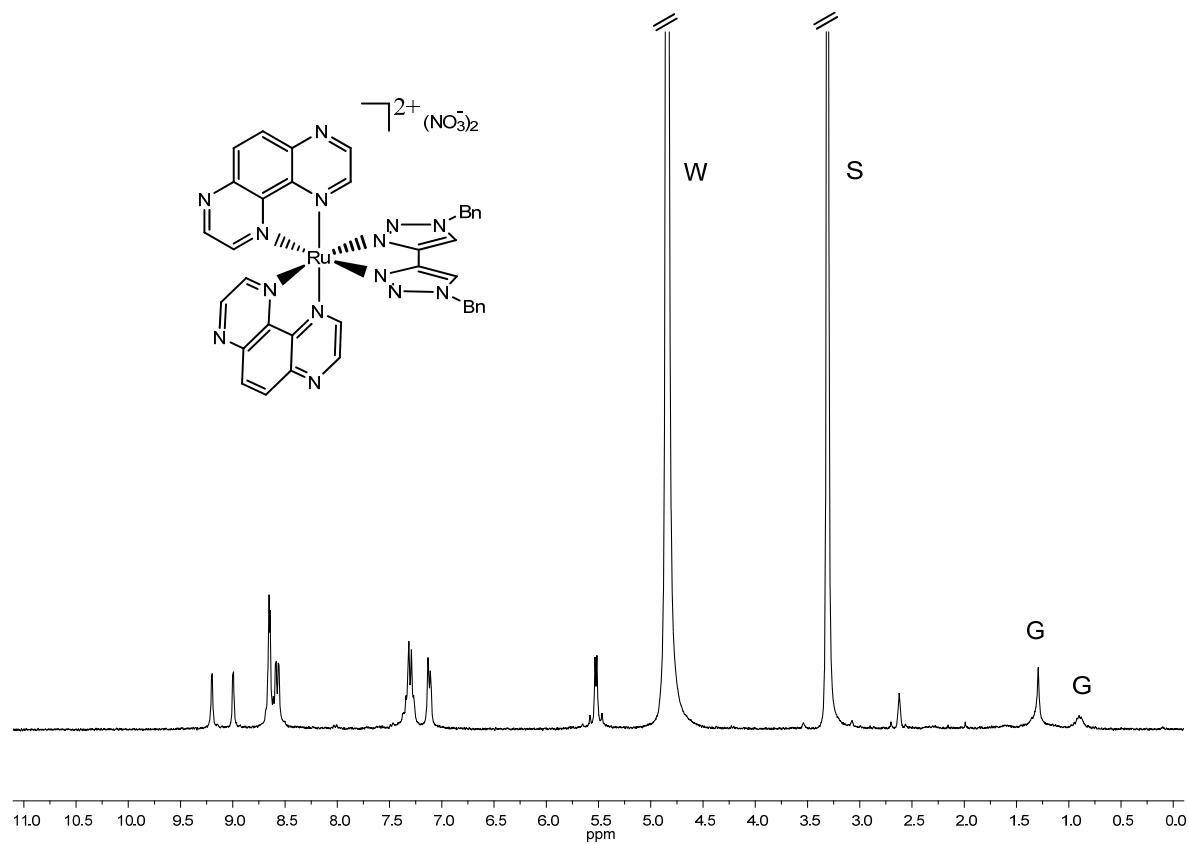
SI9. HMBC NMR (298K, 600MHz) spectrum of **4** in CD₃OD.

SI10. Absorption spectra at 298K in aerated MeCN of the complexes **2** (—) and **4** (---).

SI11. Absorption spectra at 298K in aerated H₂O of the complexes **2** (—) and **4** (---).

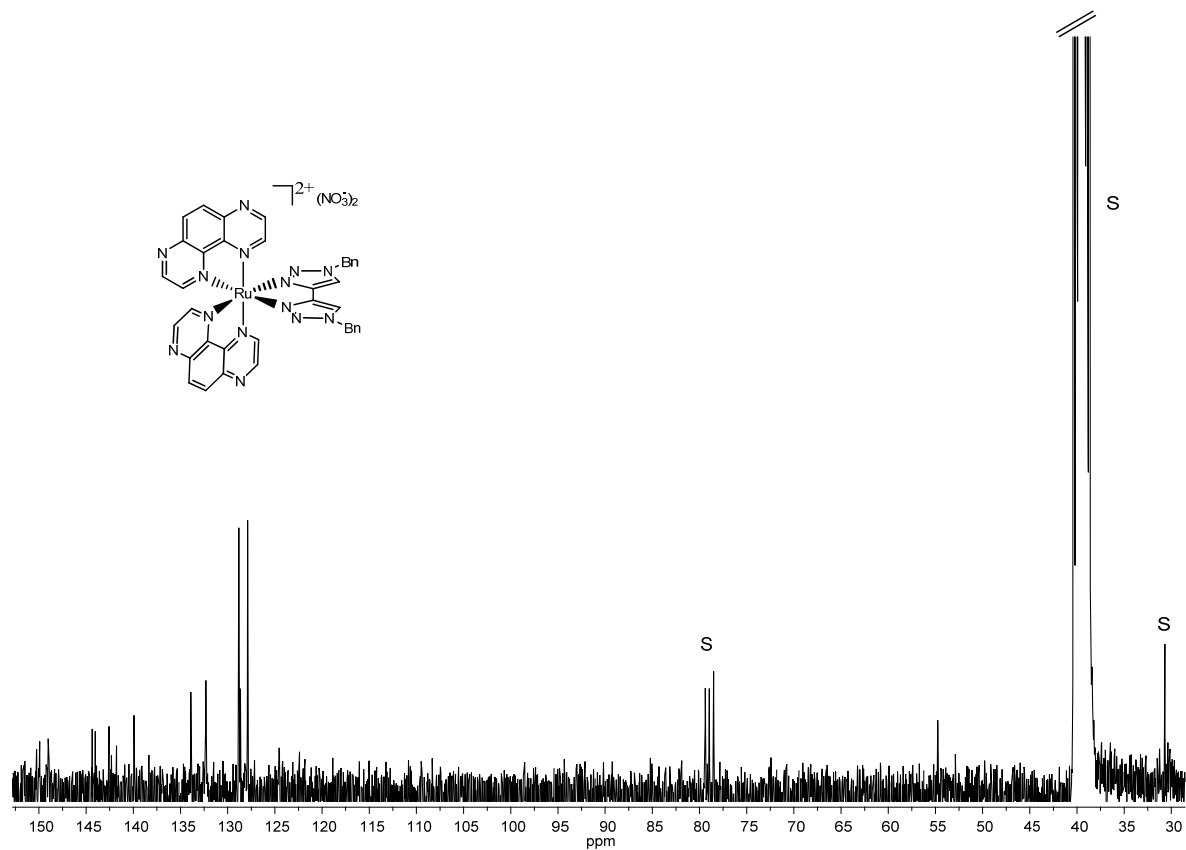
SI12. Emission spectra at 298K in H₂O in argon of the complexes **2** (—) and **4** (---).

SI1. ¹H NMR (298K, 300MHz) spectrum of **2** in CD₃OD.



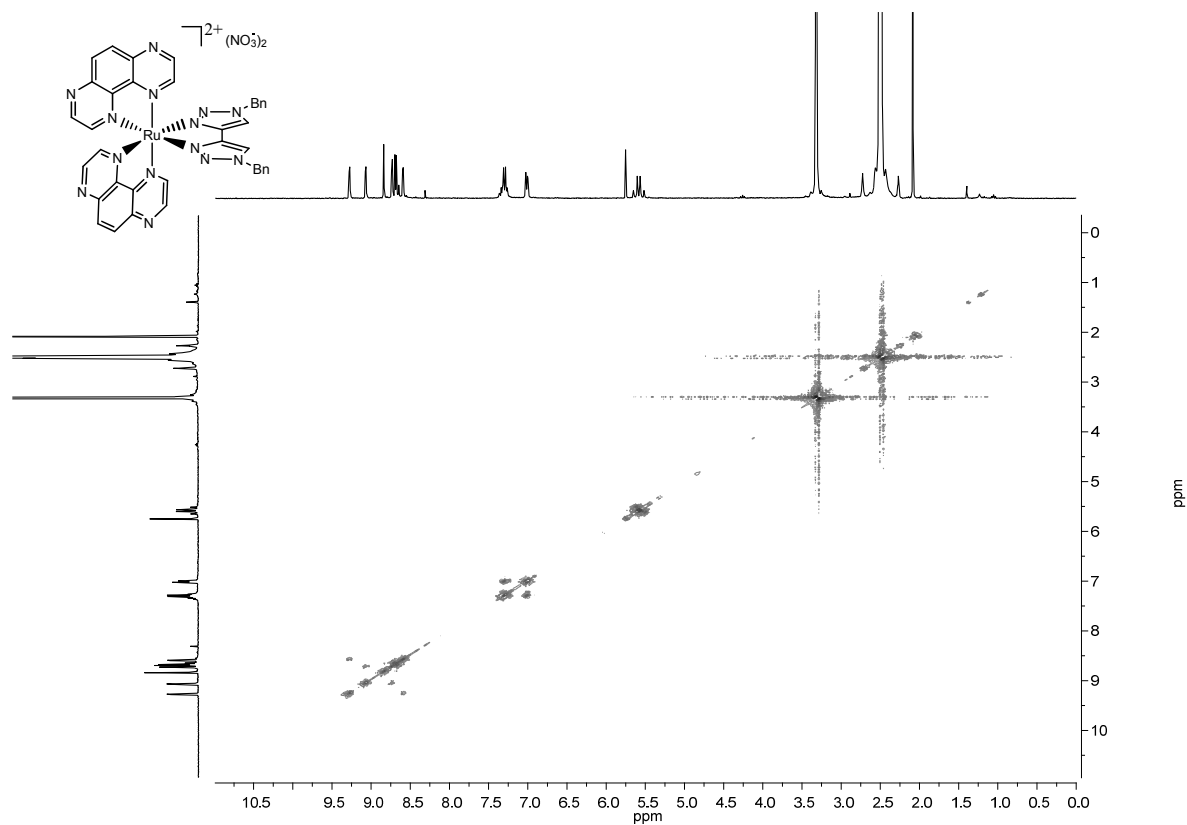
S=solvent, W=water, G=grease

SI2. ^{13}C NMR (298K, 75MHz) spectrum of **2** in d_6 -DMSO.

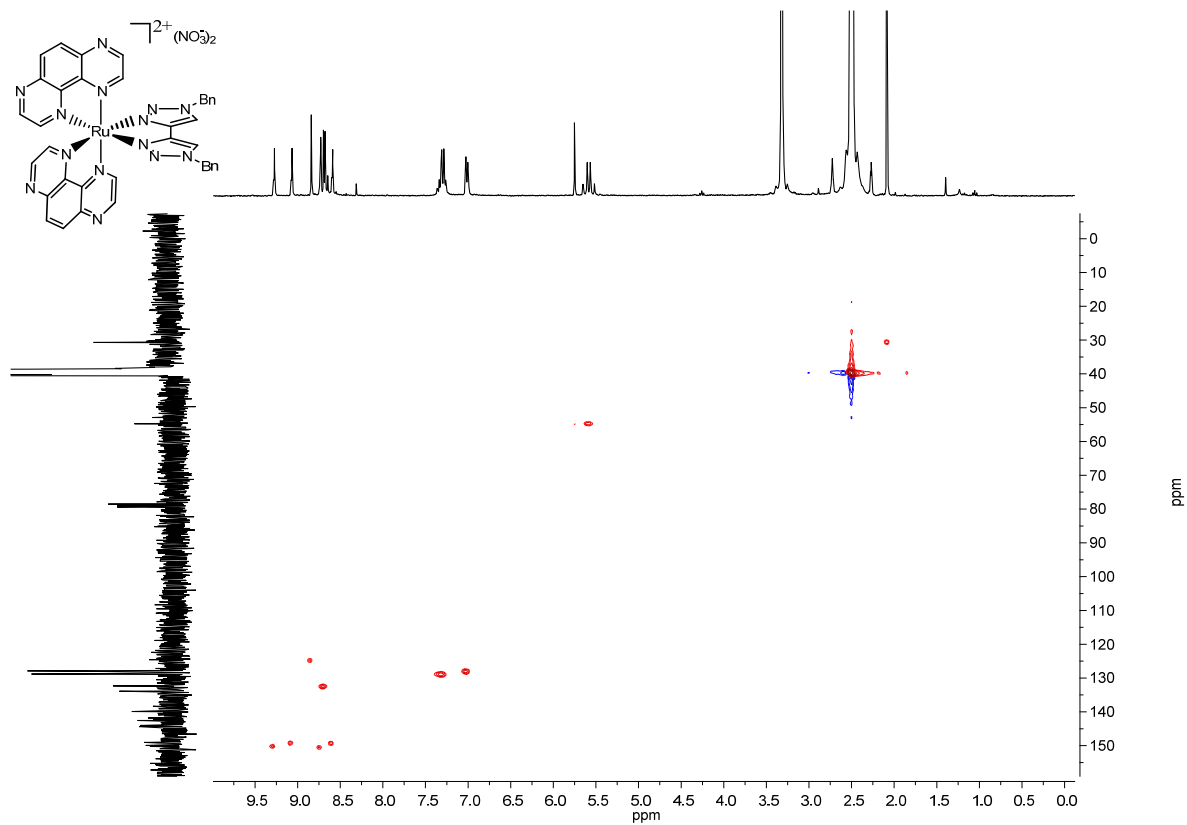


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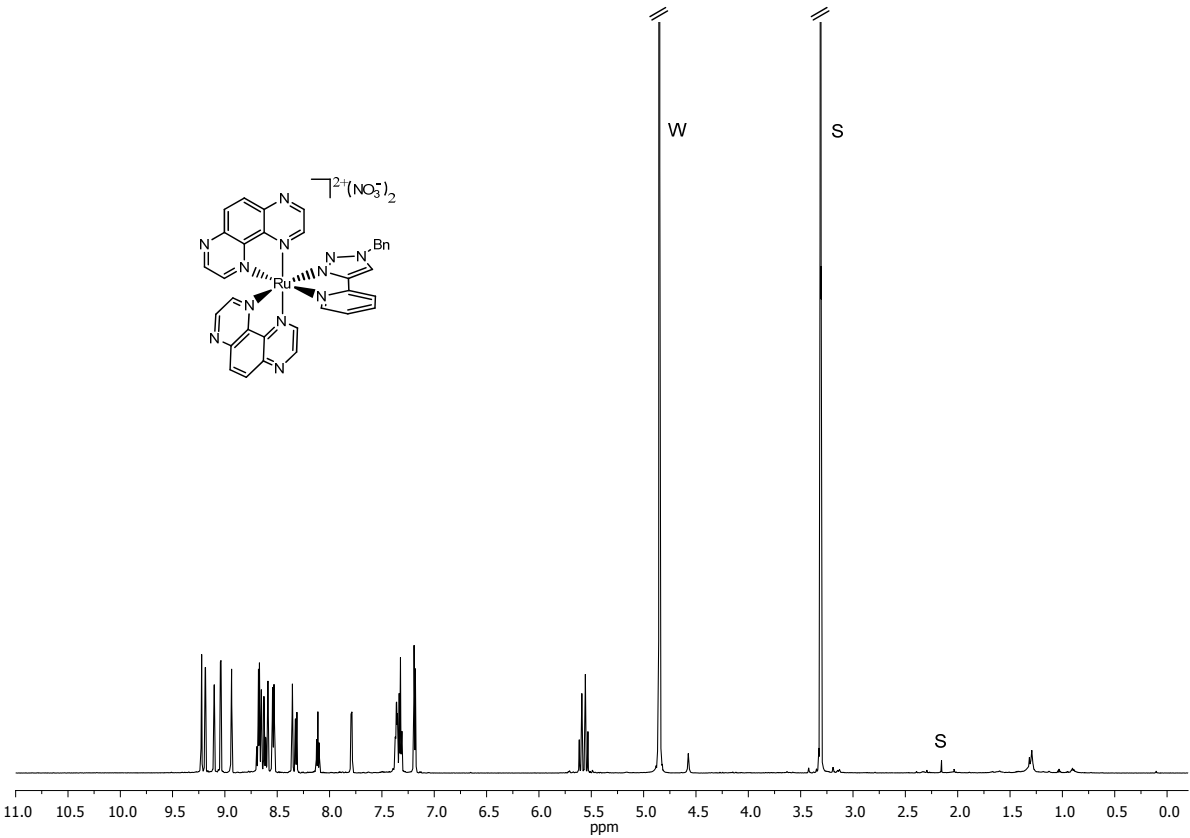
SI3. COSY NMR (298K, 300MHz) spectrum of **2** in *d*₆-DMSO.



SI4. HSQC NMR (298K, 300MHz) spectrum of **2** in *d*₆-DMSO.

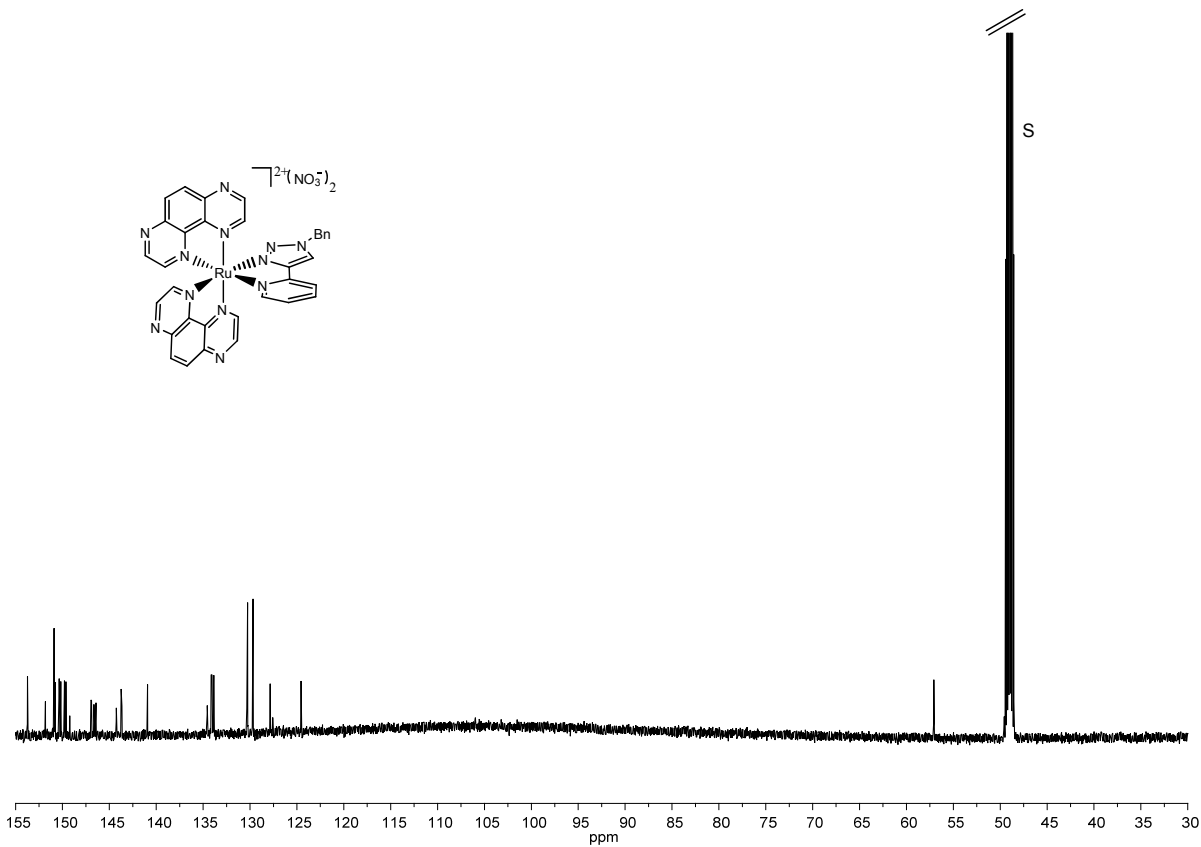


SI5. ¹H NMR (298K, 600MHz) spectrum of **4** in CD₃OD.



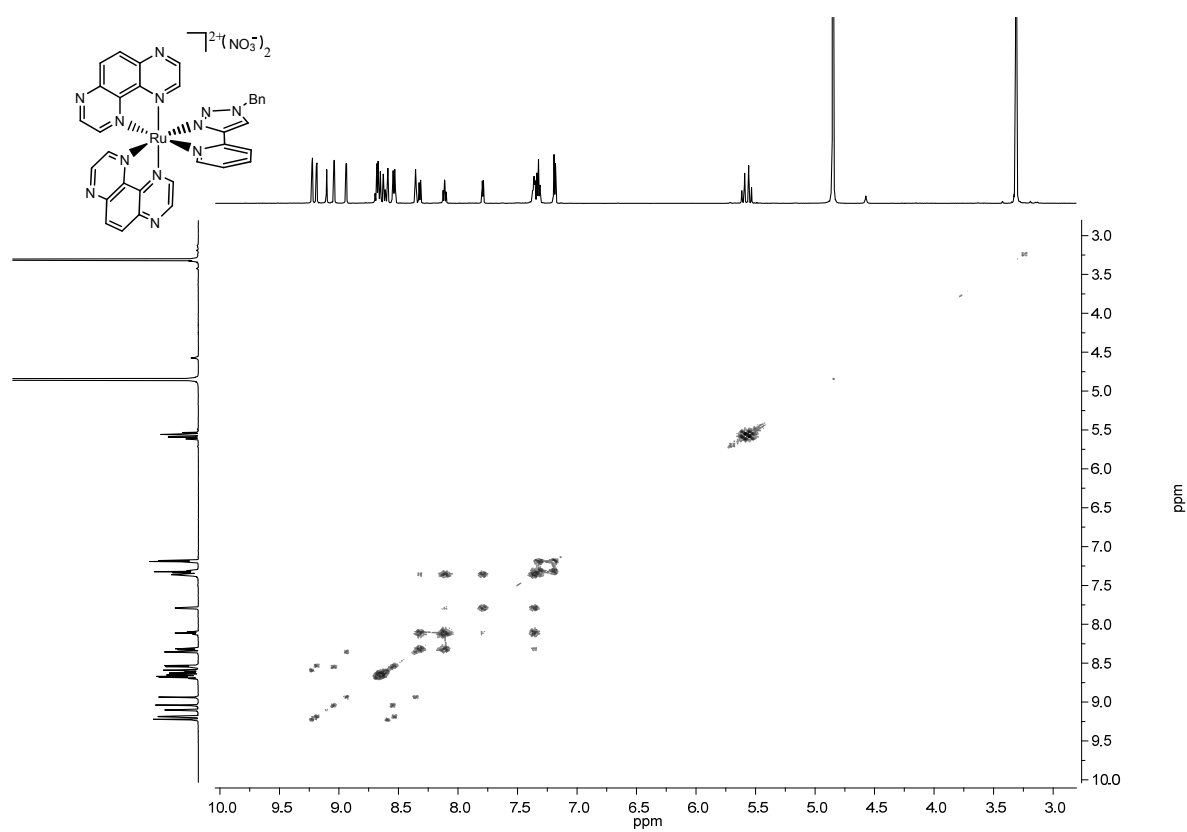
S=Solvent, W=water

SI6. ^{13}C NMR (298K, 150MHz) spectrum of **4** in CD_3OD .

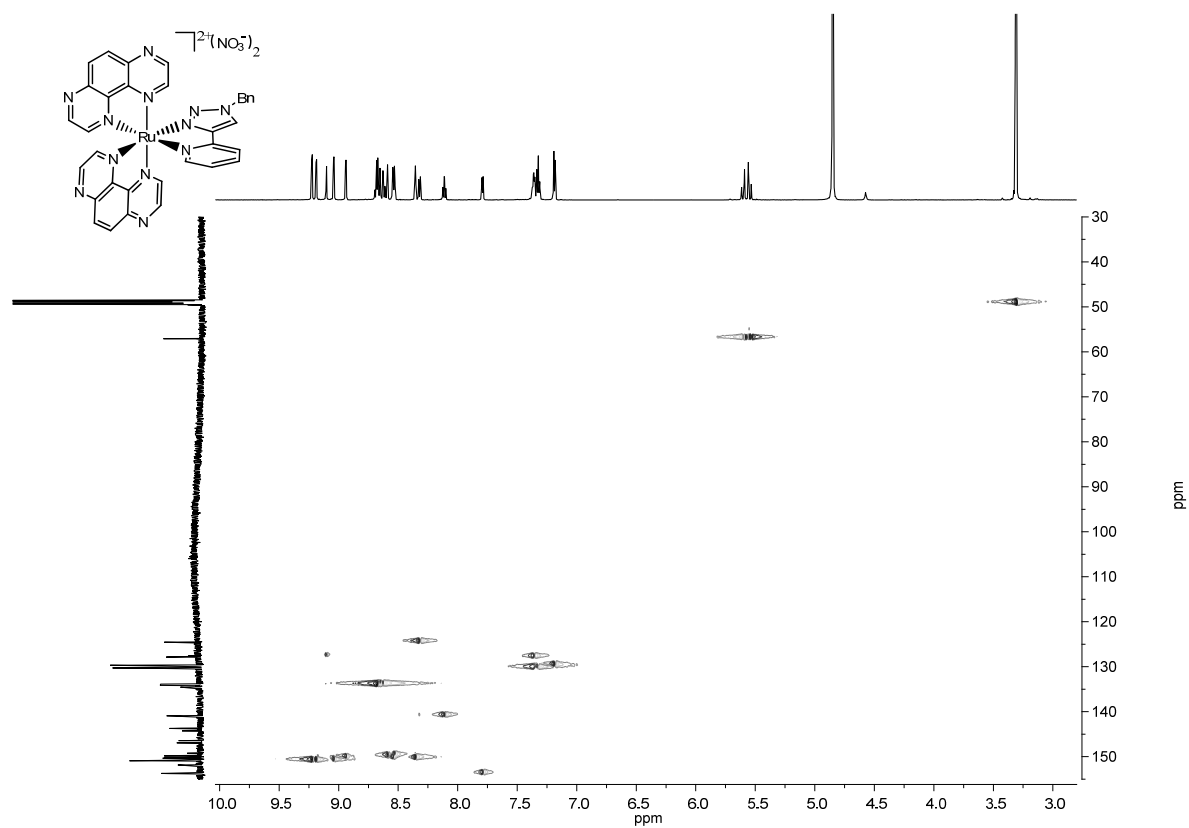


S=solvent

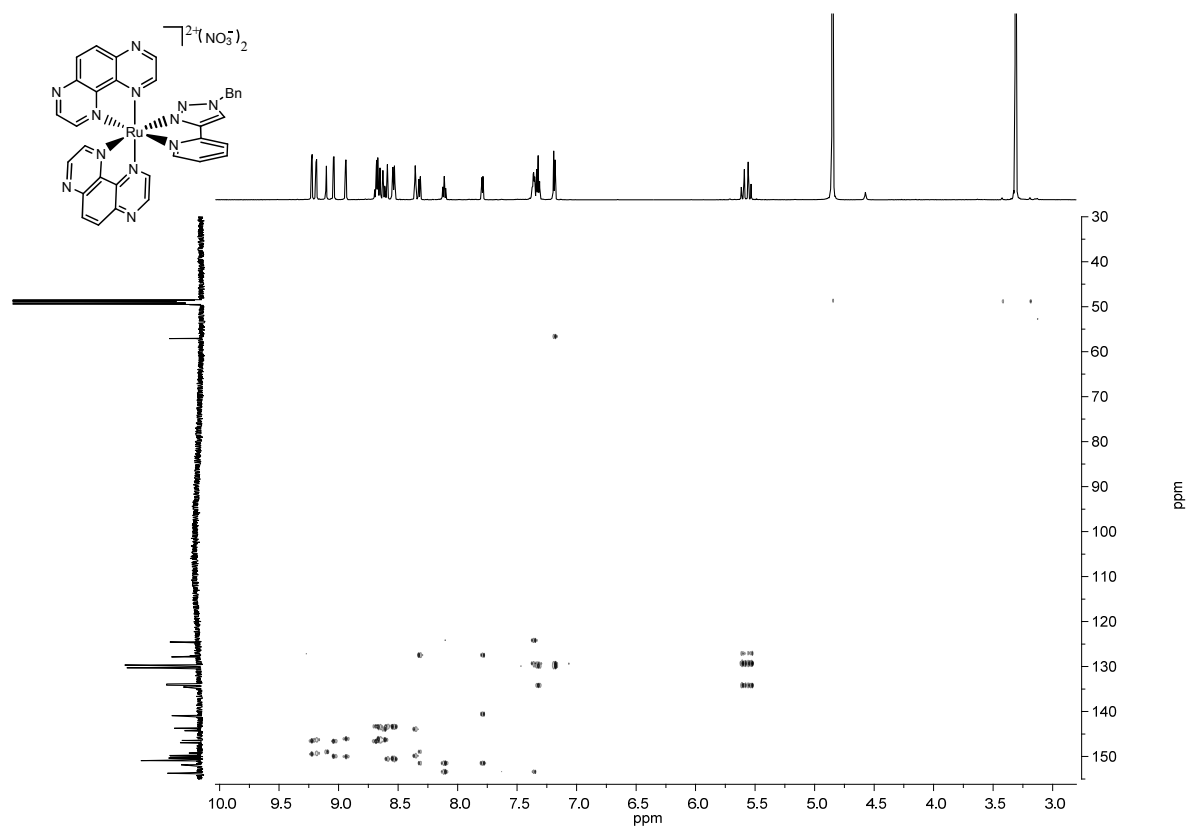
SI7. COSY NMR (298K, 600MHz) spectrum of **4** in CD₃OD.



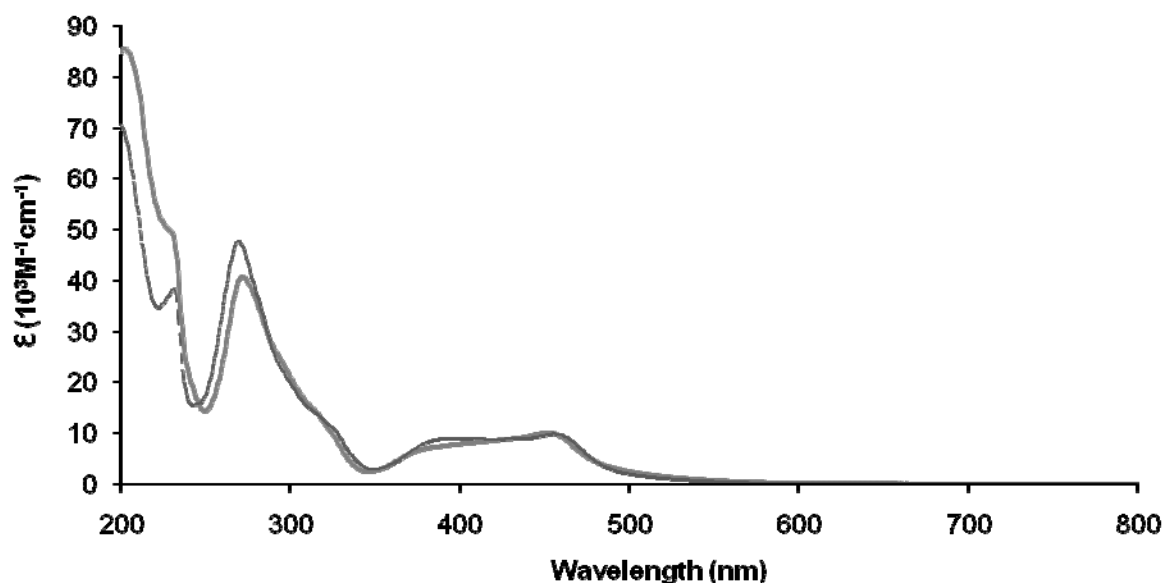
SI8. HSQC NMR (298K, 600MHz) spectrum of **4** in CD₃OD.



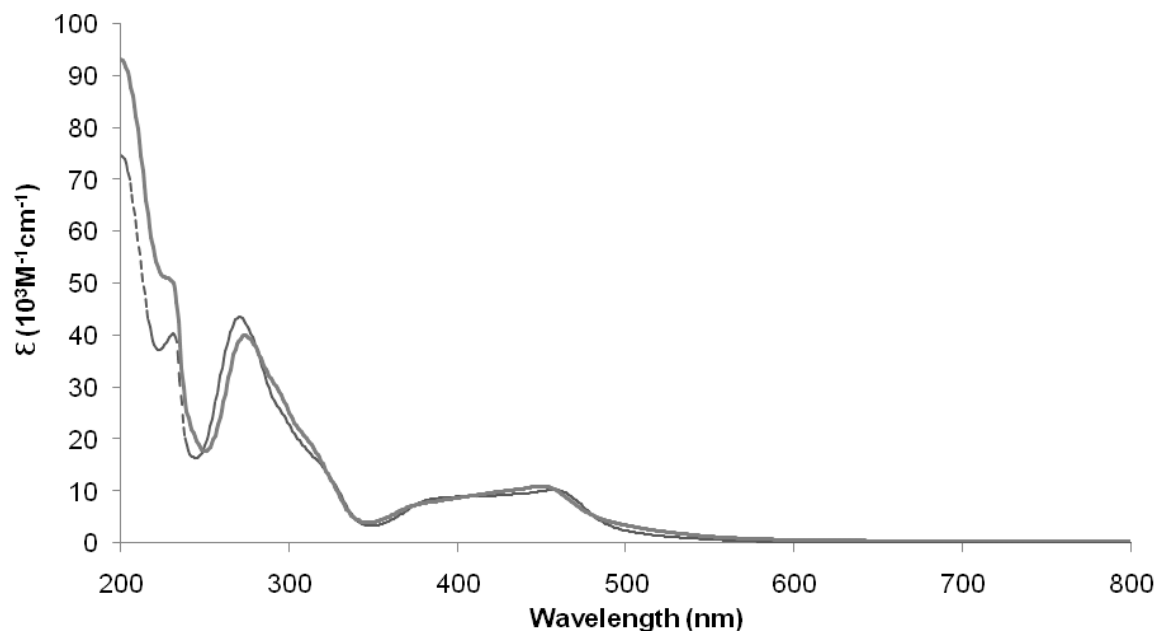
SI9. HMBC NMR (298K, 600MHz) spectrum of **4** in CD₃OD.



SI10. Absorption spectra at 298K in aerated MeCN of the complexes **2** (—) and **4** (---).



SI11. Absorption spectra at 298K in aerated H₂O of the complexes **2** (—) and **4** (---).



SI12. Emission spectra at 298K in H₂O under argon of the complexes **2** (—) and **4** (---).

