**Supplementary Materials**

Vanadium complexes with salicylaldehyde based Schiff base ligands – Structure, properties and biological activity

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The reflectance spectra of complexes **1**-**3** and **6**-**8** are presented in Figures S1-S6. The UV-Vis absorbance spectra of complexes **1**, **2** and **8** in organic solvents are presented in Figures S7-S20.

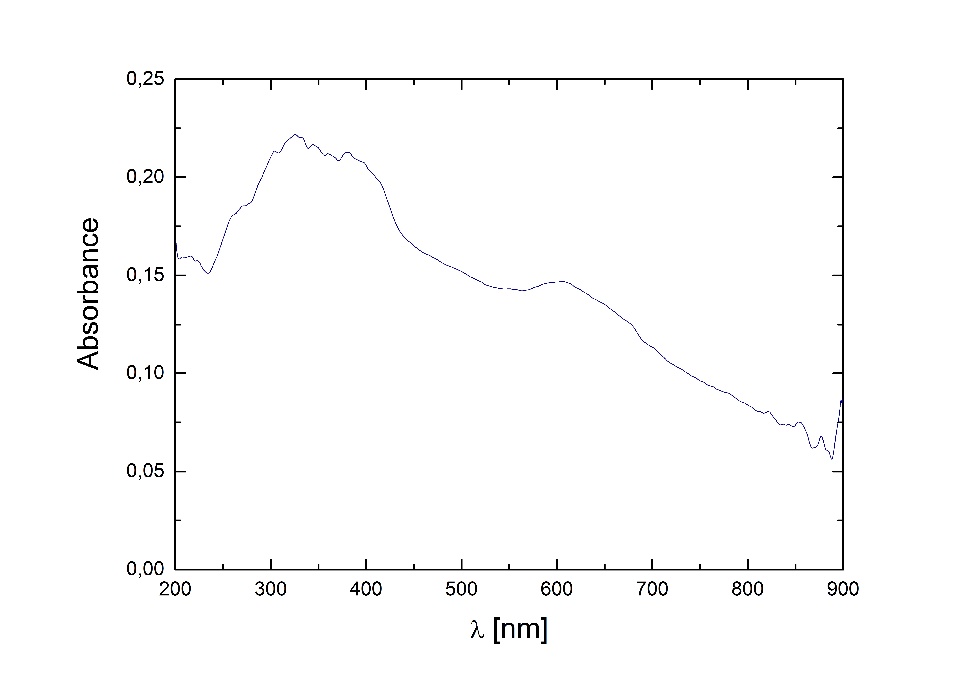


Figure S1. Reflectance spectrum of **1**. BaSO4 as reference.

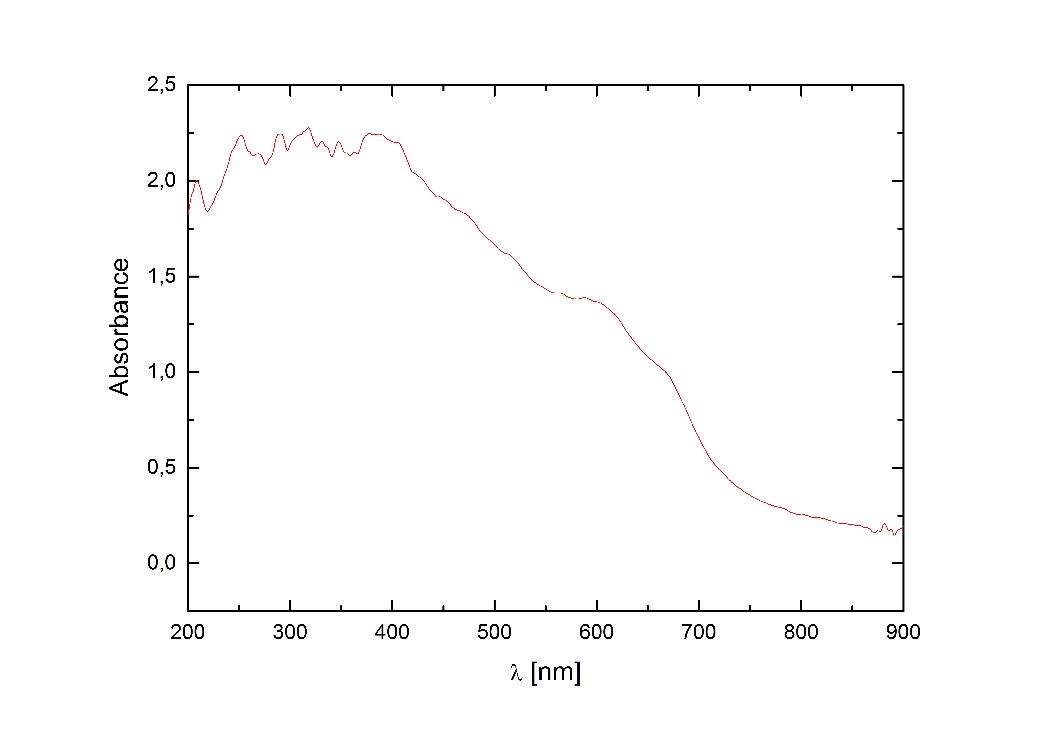


Figure S2. Reflectance spectrum of **2**. BaSO4 as reference.

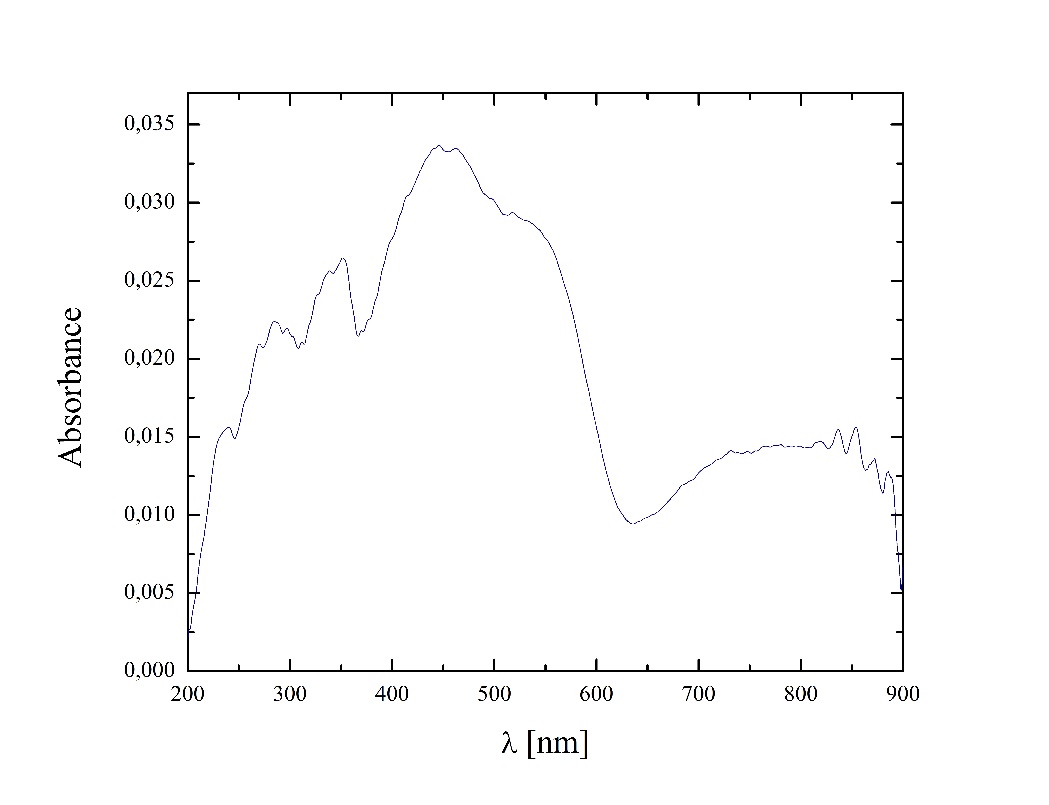


Figure S3. Reflectance spectrum of **3**. BaSO4 as reference.

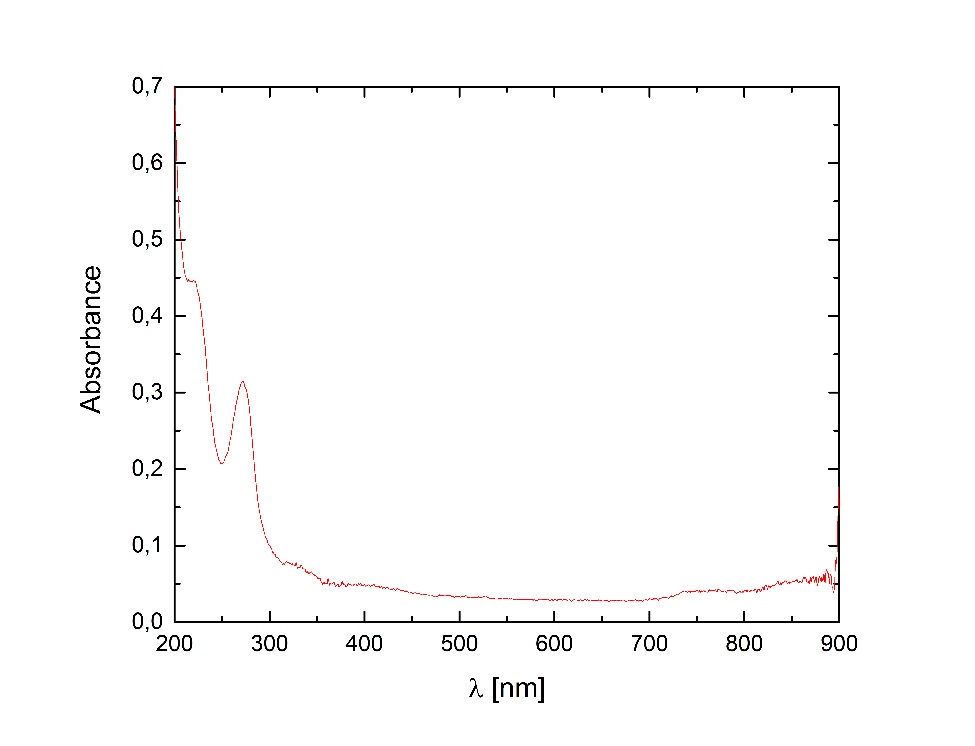


Figure S4. Reflectance spectrum of **6**. BaSO4 as reference.

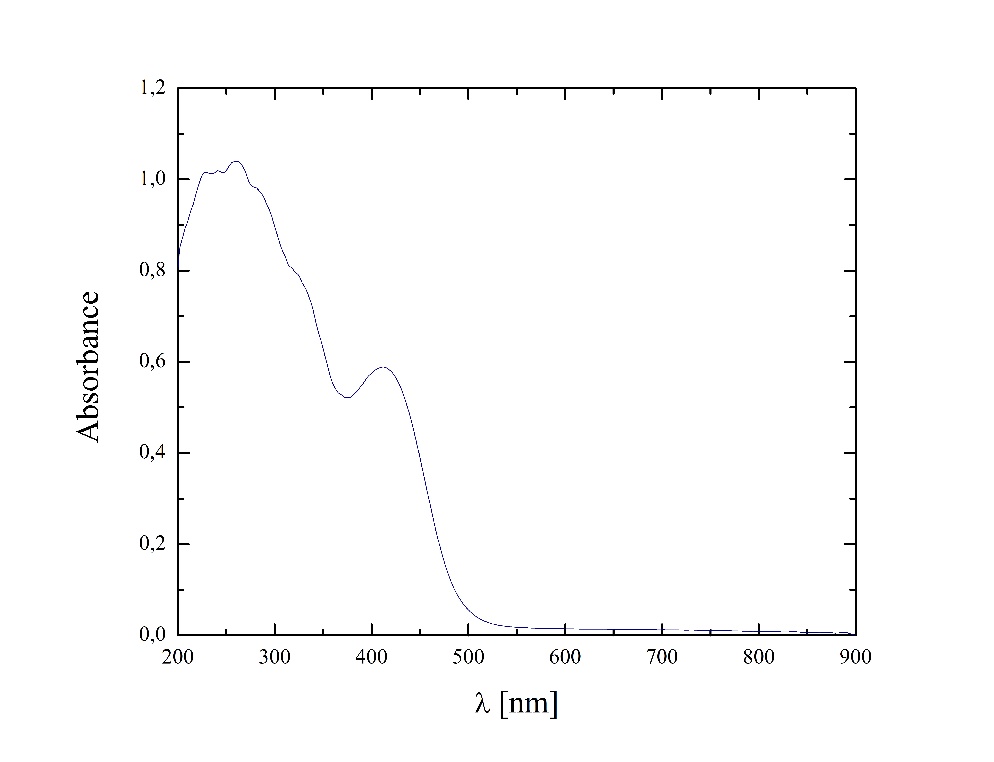


Figure S5. Reflectance spectrum of **7**. BaSO4 as reference.

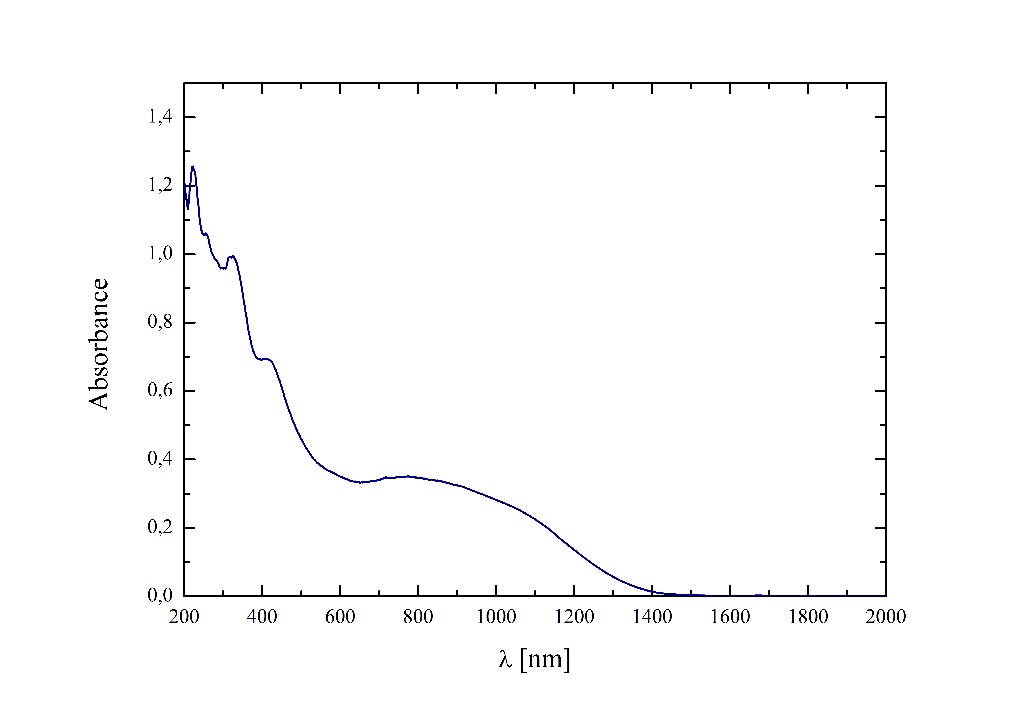


Figure S6. Reflectance spectrum of **8**. BaSO4 as reference.

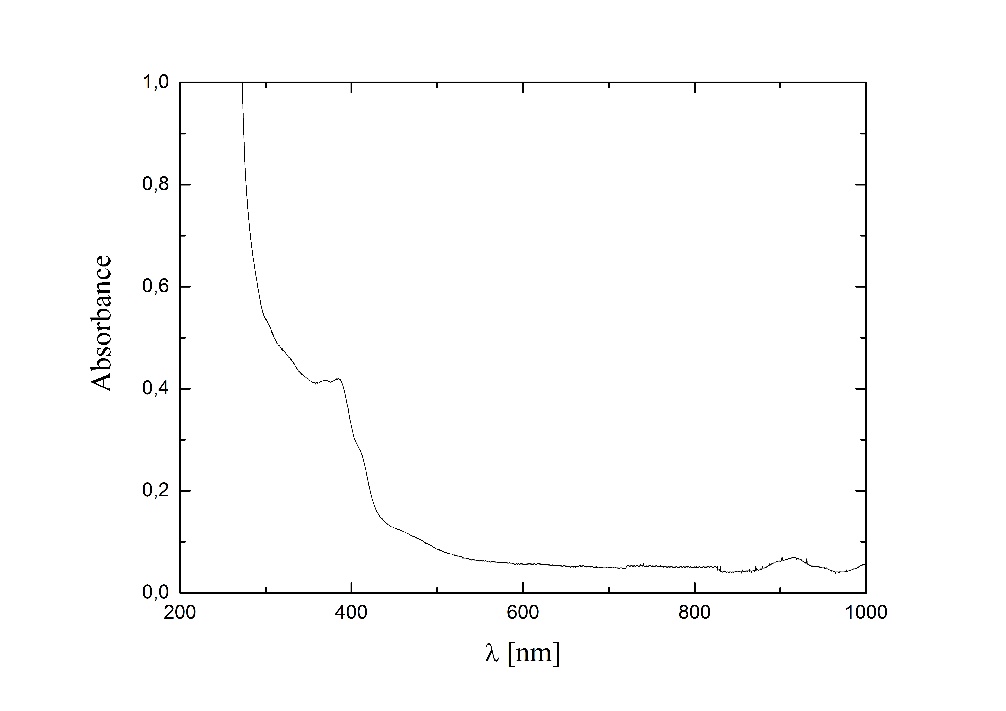


Figure S7. UV-Vis spectrum of **1** in DMF, d = 1 cm.

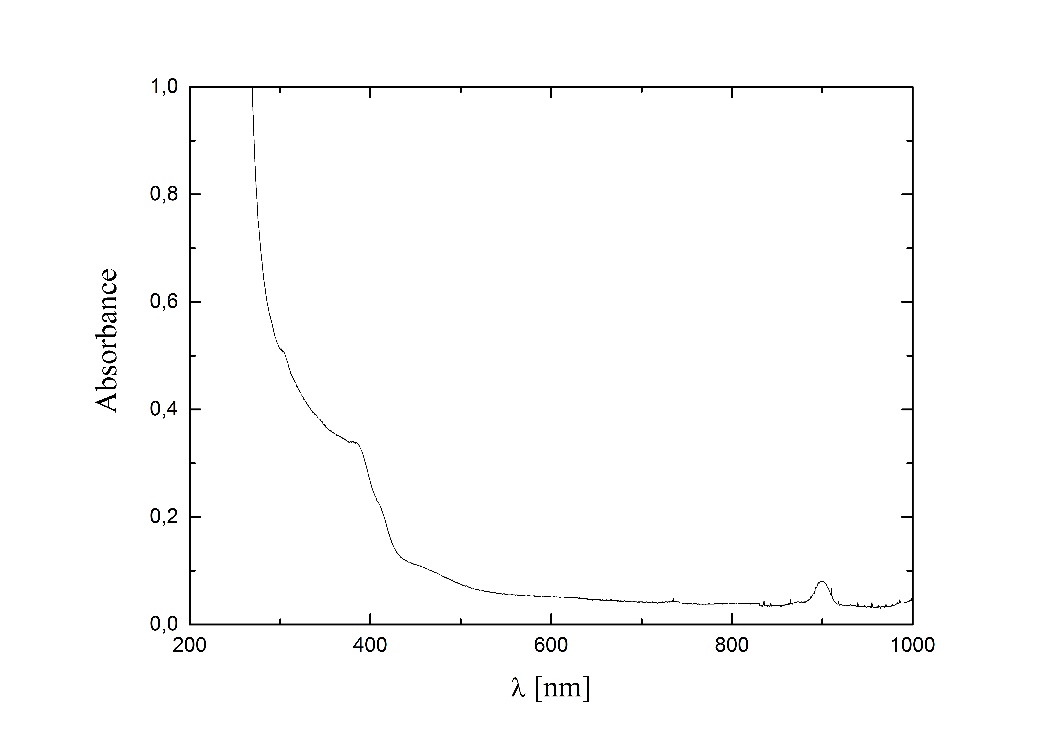


Figure S8. UV-Vis spectrum of **1** in DMSO, d = 1 cm.

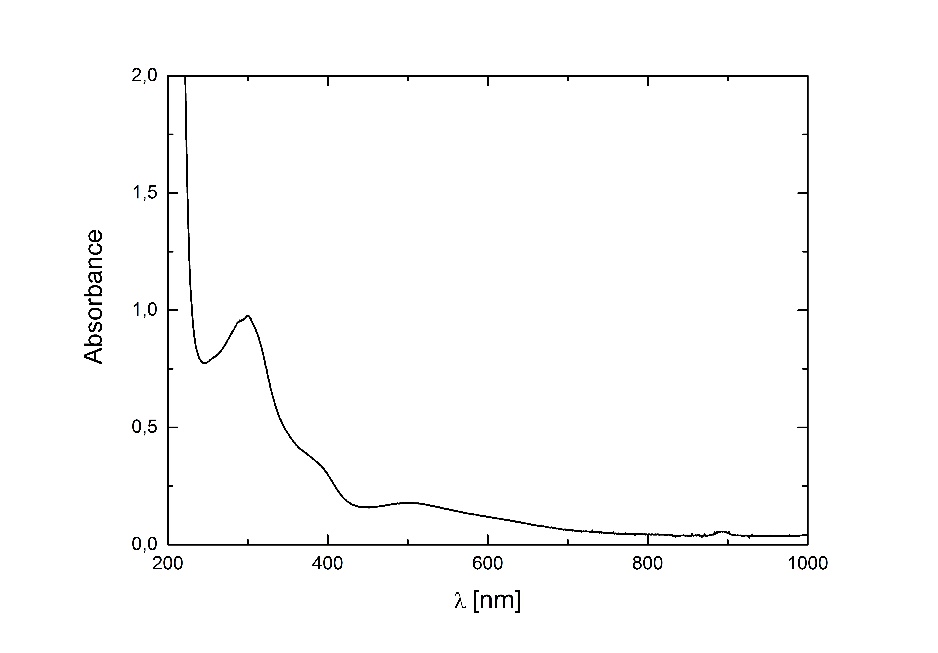


Figure S9. UV-Vis spectrum of **1** in EtCl2, d = 1 cm.

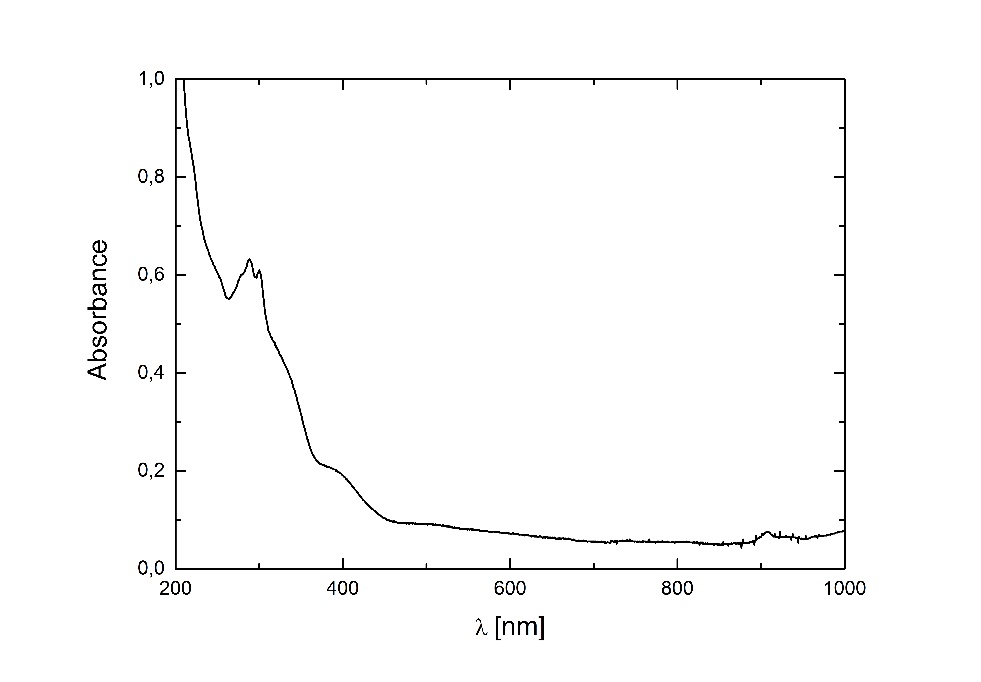


Figure S10. UV-Vis spectrum of **1** in EtOH, d = 1 cm.

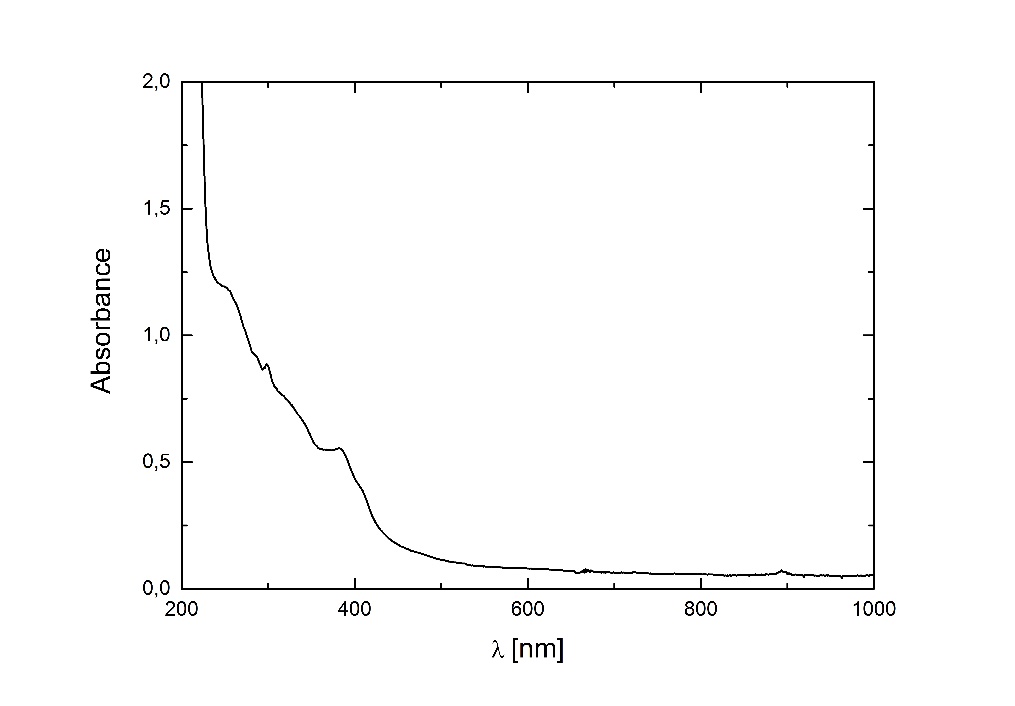


Figure S11. UV-Vis spectrum of **1** in MeCN, d = 1 cm.

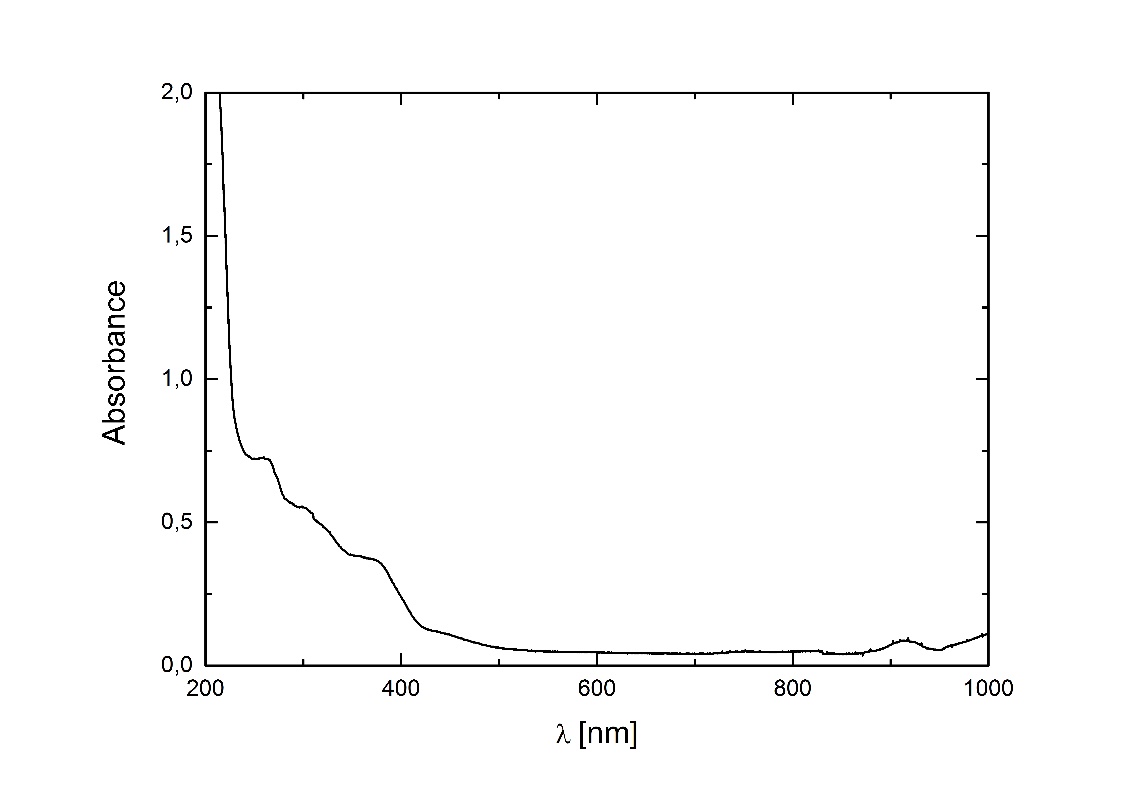


Figure S12. UV-Vis spectrum of **1** in MeOH, d = 1 cm.

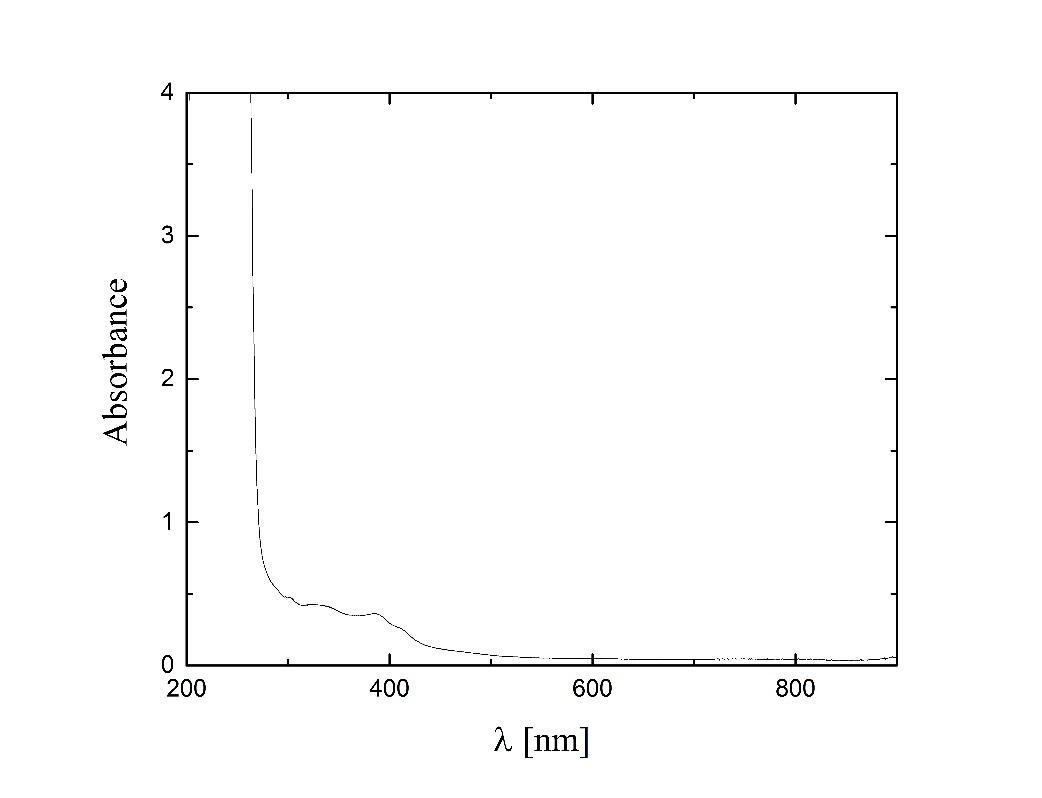


Figure S13. UV-Vis spectrum of **2** in DMF, d = 1 cm.

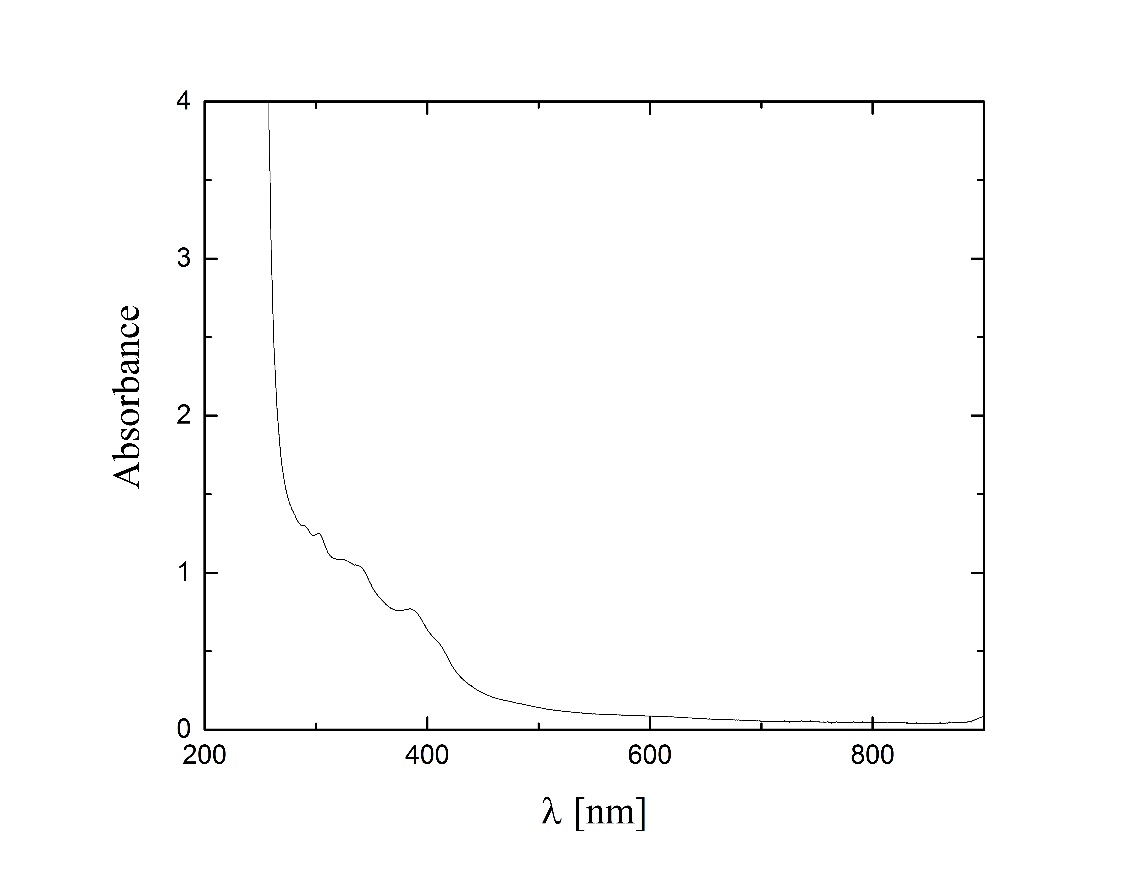


Figure S14. UV-Vis spectrum of **2** in DMSO, d = 1 cm.

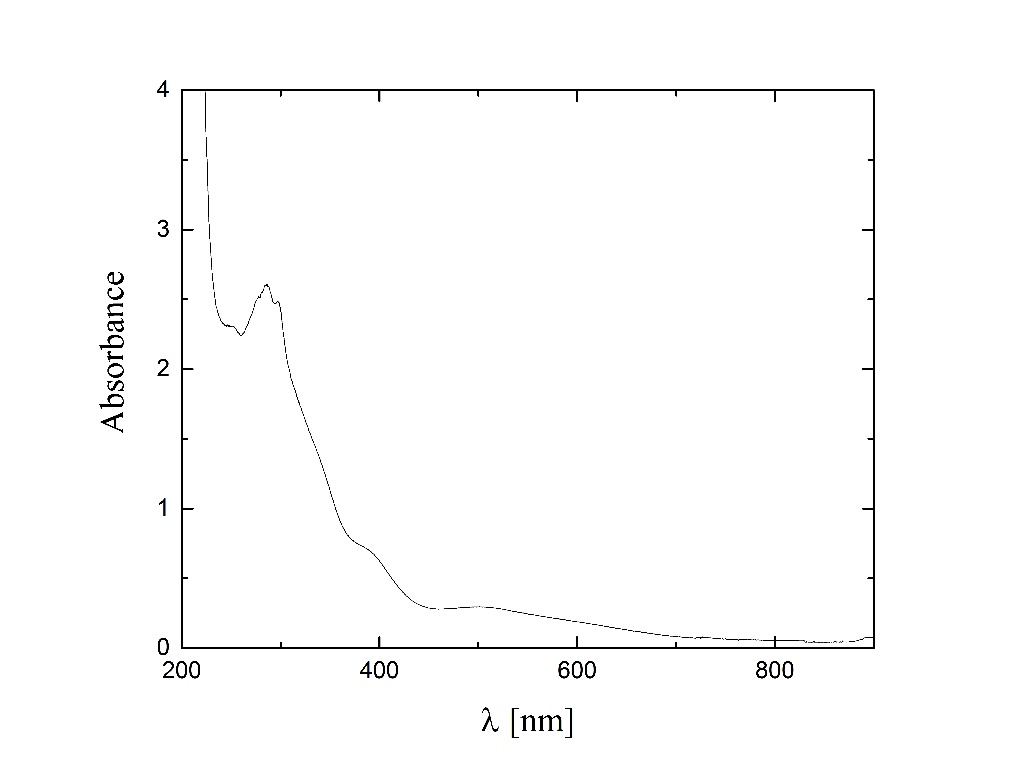


Figure S15. UV-Vis spectrum of **2** in EtCl2, d = 1 cm.

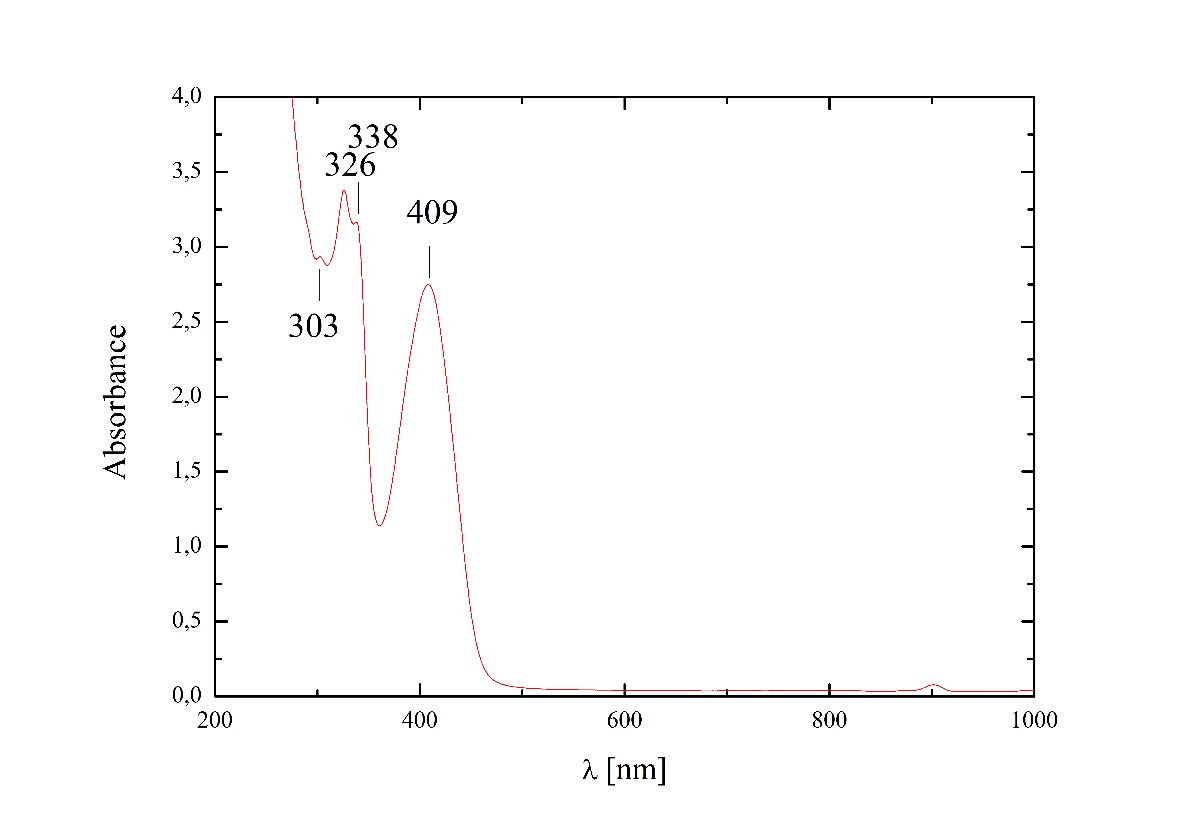


Figure S16. UV-Vis spectrum of **8** in DMSO, d = 1 cm.

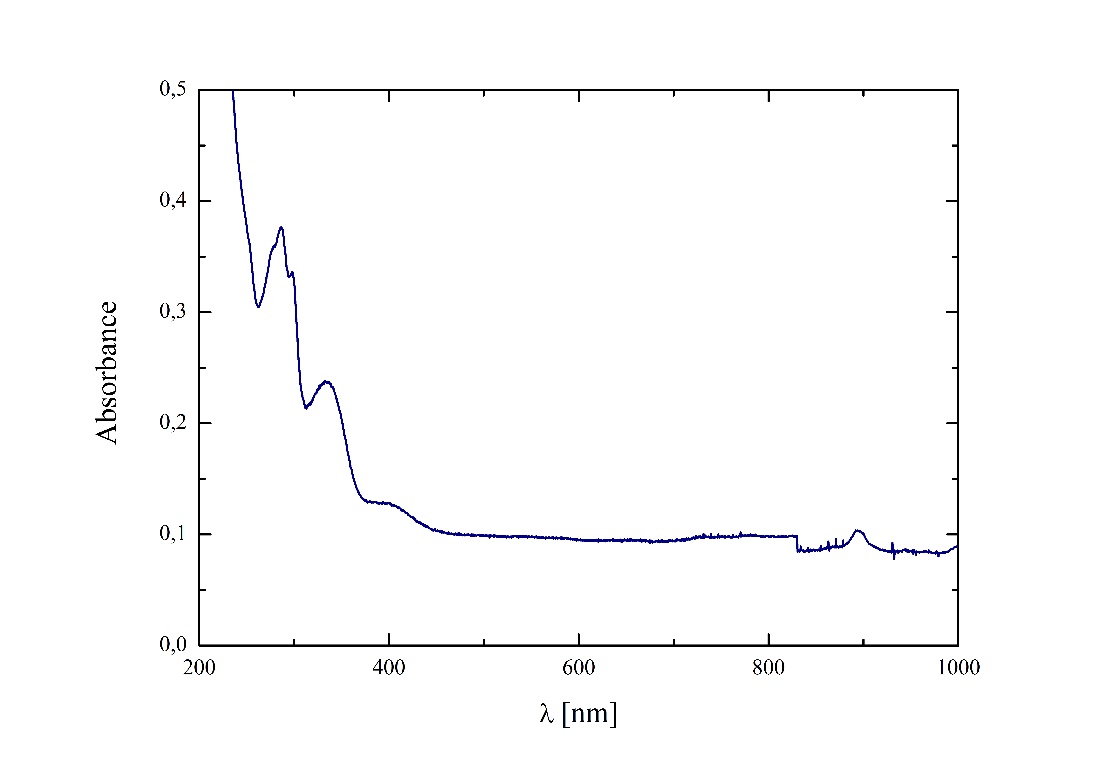


Figure S17. UV-Vis spectrum of **8** in EtCl2, d = 1 cm.

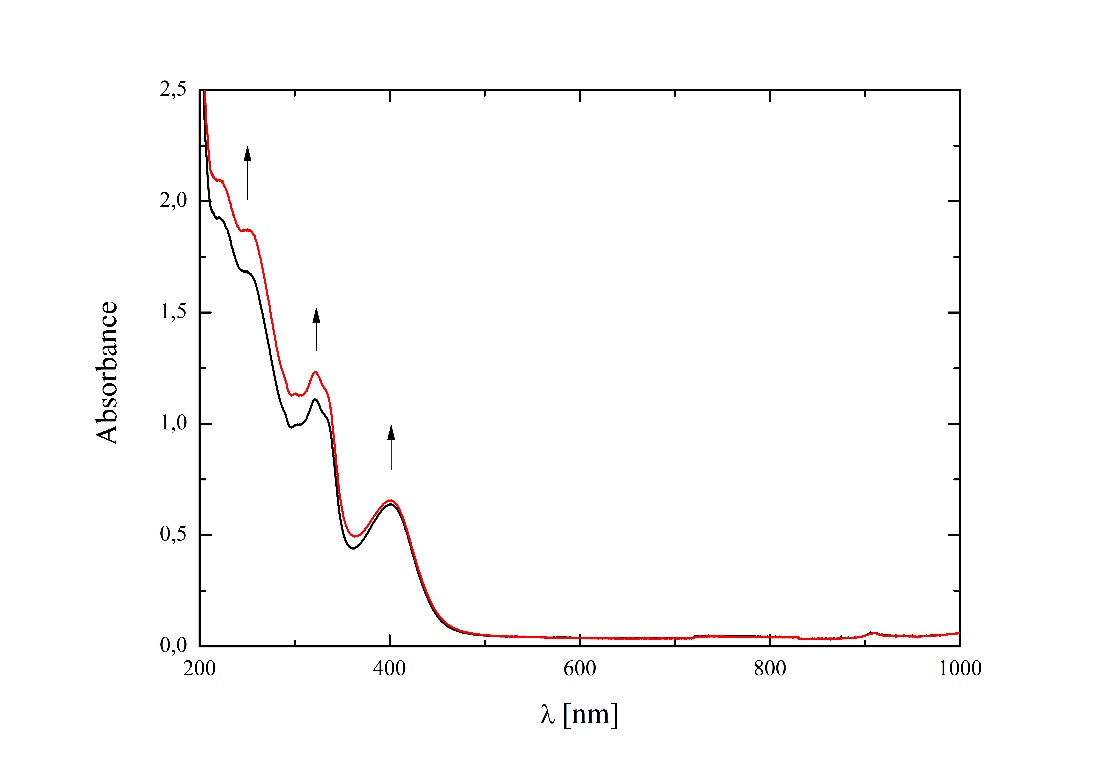


Figure S18. UV-Vis spectrum of **8** in EtOH, d = 1 cm, arrows indicate spectral changes after 20 minutes.

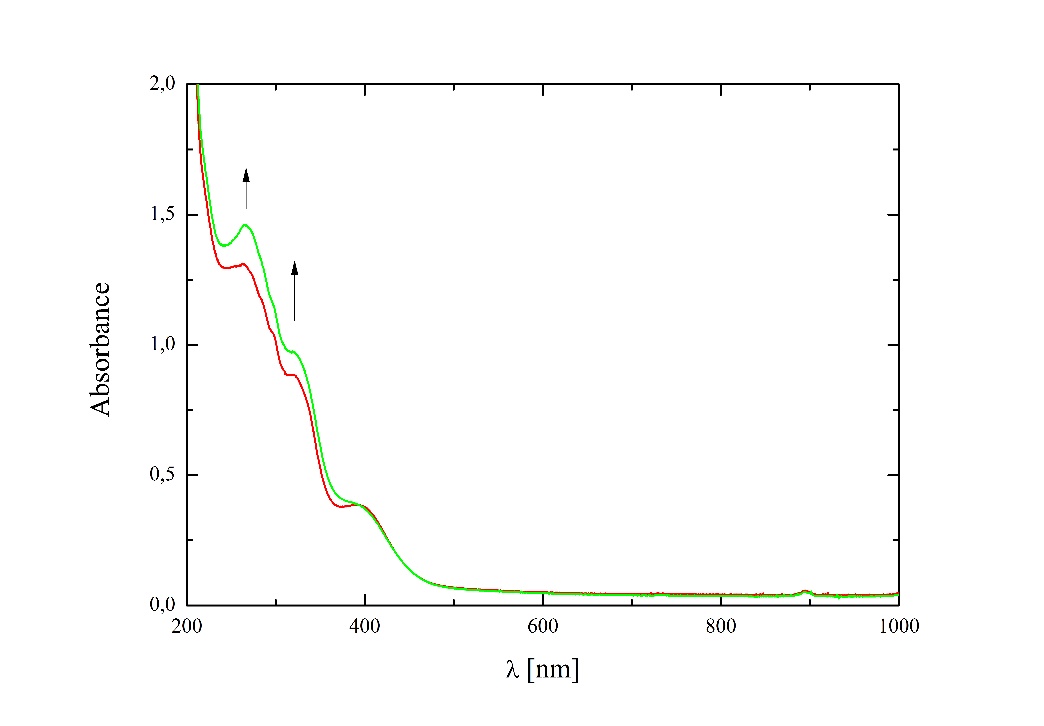


Figure S19. UV-Vis spectrum of **8** in MeCN, d = 1 cm, arrows indicate spectral changes after 20 minutes.

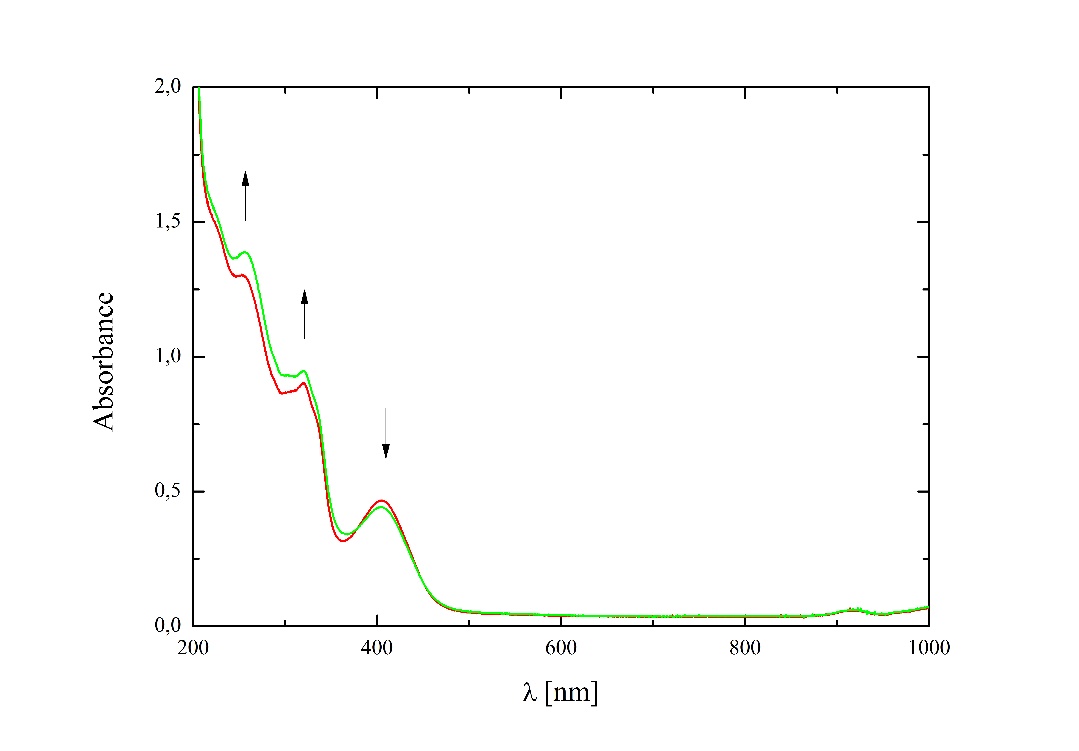


Figure S20. UV-Vis spectrum of **8** in MeOH, d = 1 cm, arrows indicate spectral changes after 20 minutes.



Figure S21. The IR spectrum of ligand L1. ATR spectrum after ATR correction. IR spectrum was recorded on a Nicolet iS5 FT-IR spectrophotometer.



Figure S22. The IR spectrum of ligand L2. ATR spectrum after ATR correction. IR spectrum was recorded on a Nicolet iS5 FT-IR spectrophotometer.