Azobenzene-functionalized N-Heterocyclic Carbenes as Photochromic Ligands in Silver(I) and Gold(I) Complexes

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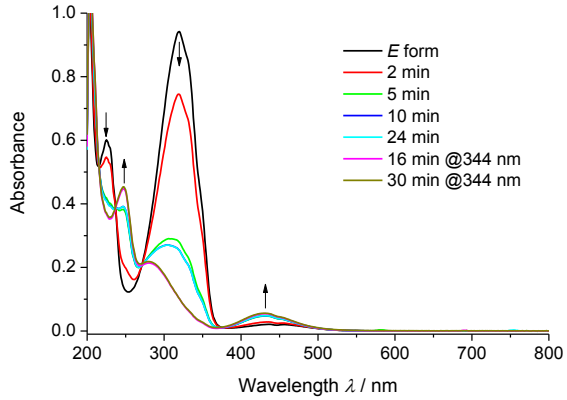

Figure S1. Photo-induced *E*→*Z* isomerisation of **3a** upon irradiation at 319 nm (for the first 24 min.) and 344 nm, respectively (c = 4.6×10^{-5} mol·L^{-1} in methanol).

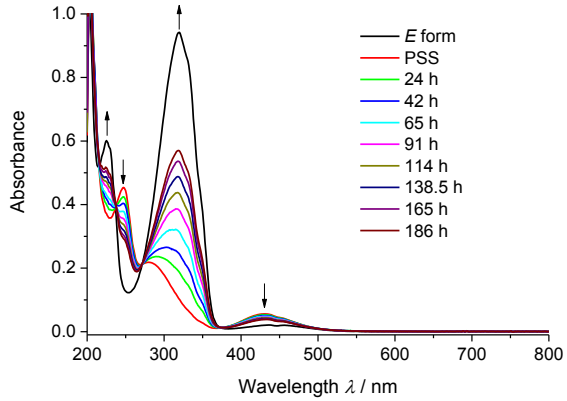

Figure S2. Thermal relaxation of the same solution as in Figure S1 at 24 °C.

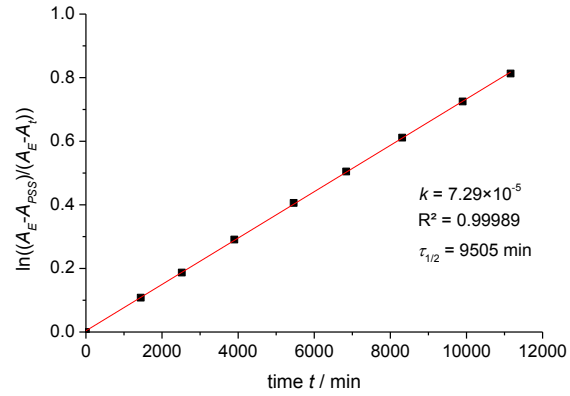

Figure S3. Determination of the half-life of **3a** at 24 °C.

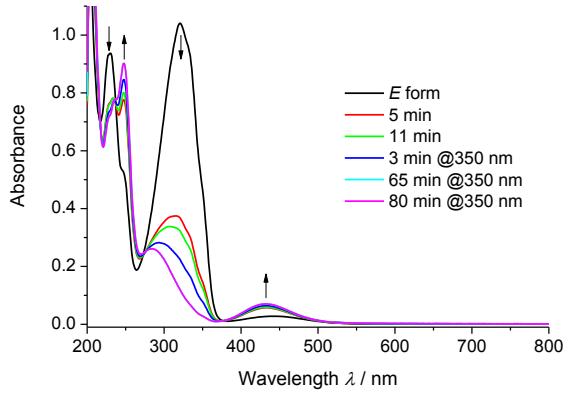

Figure S4. Photo-induced *E*→*Z* isomerisation of **5a** upon irradiation at 320 nm (for the first 11 min.) and 350 nm, respectively (c = 5.1×10^{-5} mol·L^{-1} in methanol).

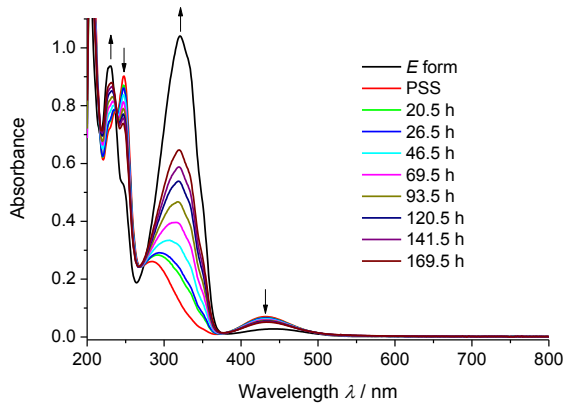

Figure S5. Thermal relaxation of the same solution as in Figure S4 at 24 °C.

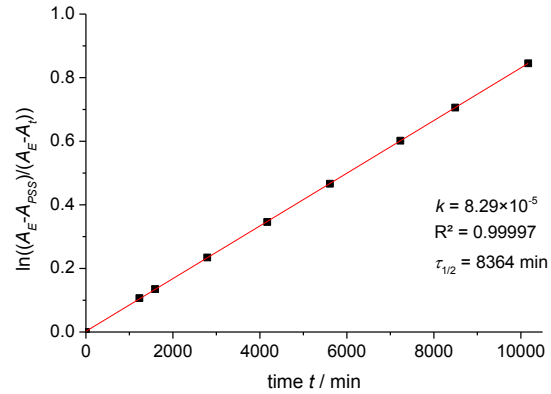

Figure 6. Determination of the half-life of **5a** at 24 °C.

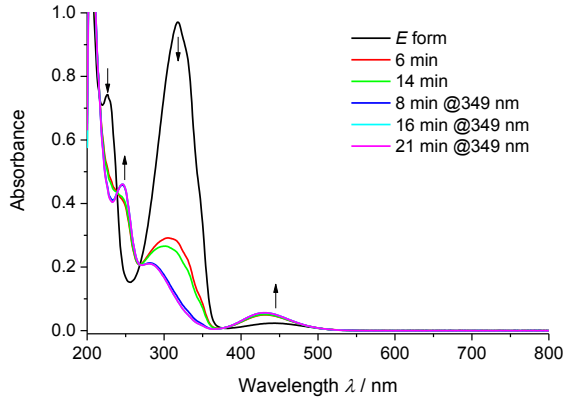

Figure S7. Photo-induced *E*→*Z* isomerisation of **3b** upon irradiation at 318 nm (for the first 14 min.) and 349 nm, respectively (c = 4.4×10^{-5} mol·L^{-1} in methanol).

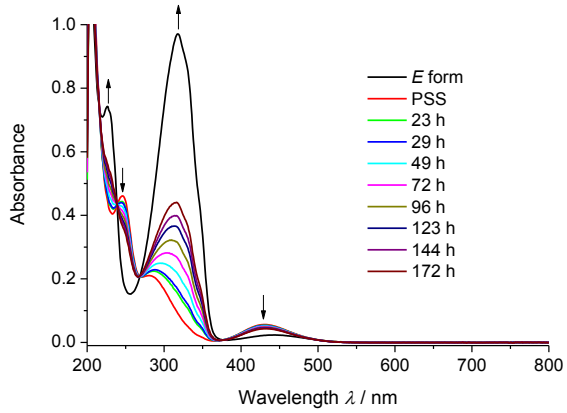

Figure S8. Thermal relaxation of the same solution as in Figure S7 at 24 °C.

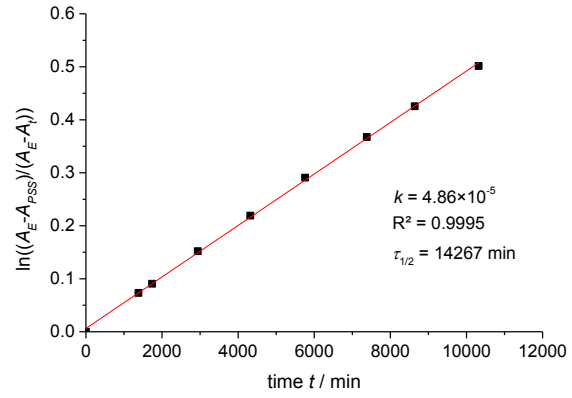

Figure S9. Determination of the half-life of **3b** at 24 °C.

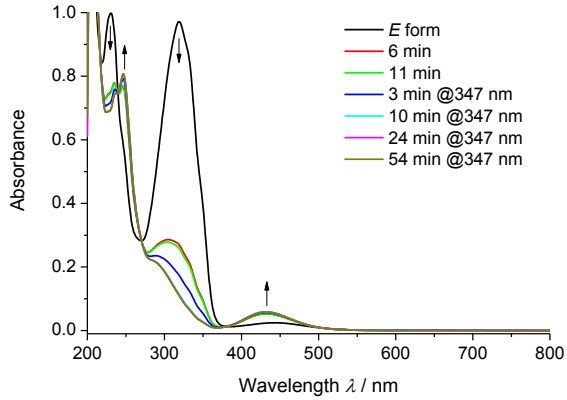

Figure S10. Photo-induced *E*→*Z* isomerisation of **5b** upon irradiation at 320 nm (for the first 11 min.) and 347 nm, respectively (c = 7.9×10^{-5} mol·L^{-1} in methanol).

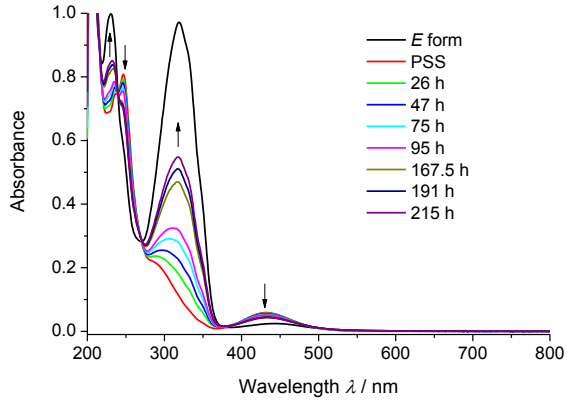

Figure S11. Thermal relaxation of the same solution as in Figure S10 at 24 °C.

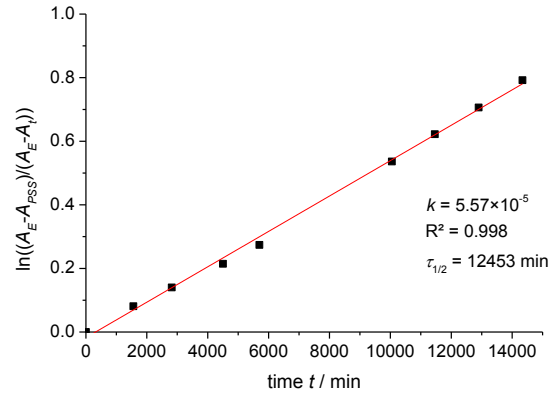

Figure S12. Determination of the half-life of **5b** at 24 °C.

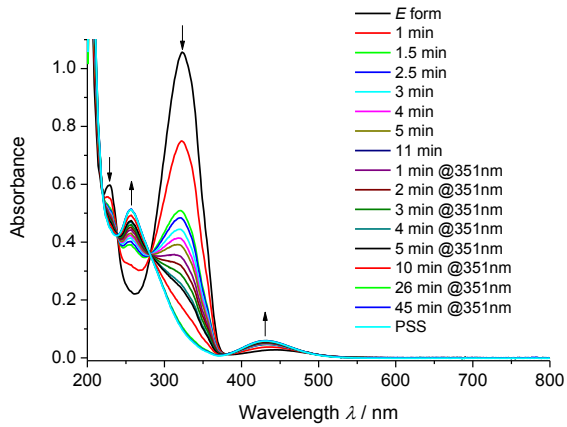

Figure S13. Photo-induced *E*→*Z* isomerisation of **8a** upon irradiation at 323 nm (for the first 11 min.) and 351 nm, respectively (c = 7.6×10^{-5} mol·L^{-1} in methanol).

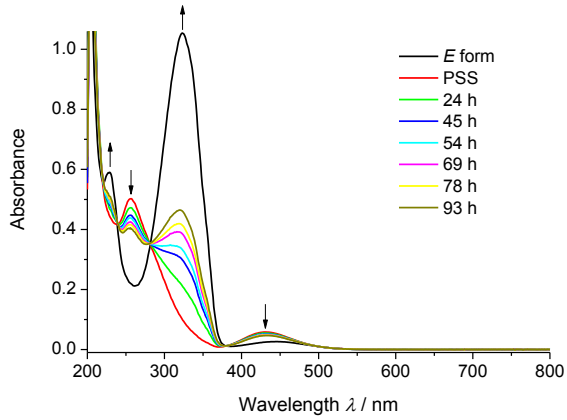

Figure S14. Thermal relaxation of the same solution as in Figure S13 at 24 °C.

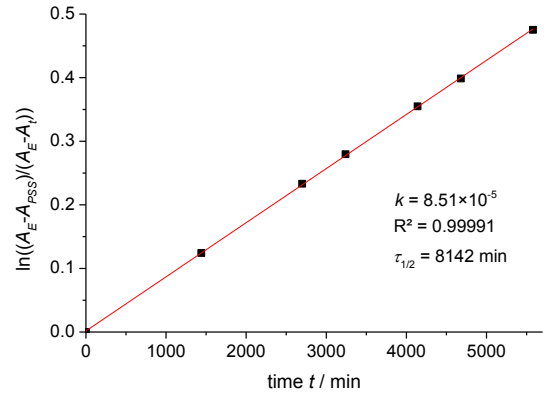

Figure S15. Determination of the half-life of **8a** at 24 °C.

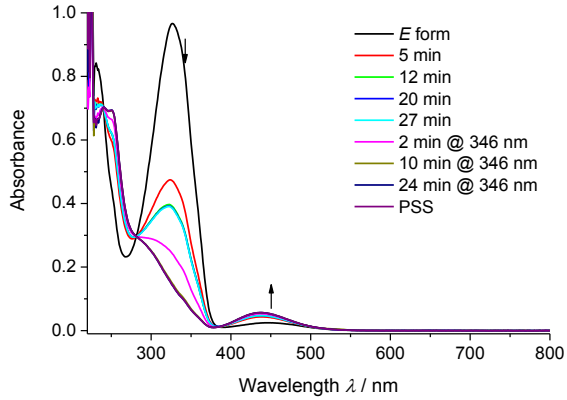

Figure S16. Photo-induced *E*→*Z* isomerisation of **10a** upon irradiation at 327 nm (for the first 27 min.) and 346 nm, respectively ($c = 4.1\times10^{-5}$ mol·L^{-1} in dichloromethane).

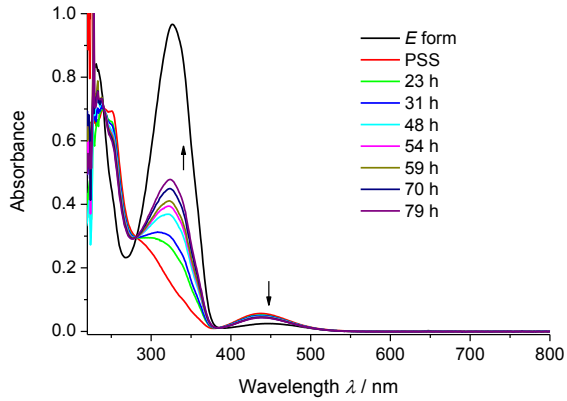

Figure S17. Thermal relaxation of the same solution as in Figure S16 at 24 °C.

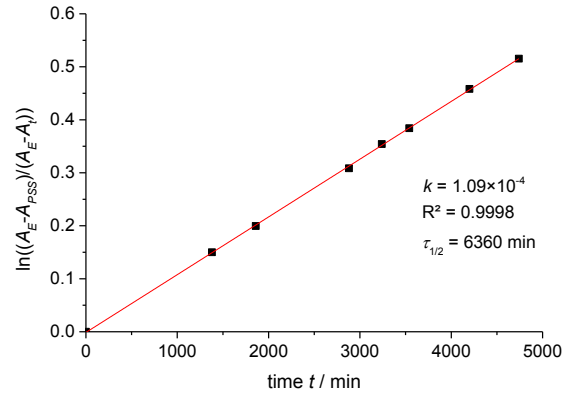

Figure S18. Determination of the half-life of **10a** at 24 °C.

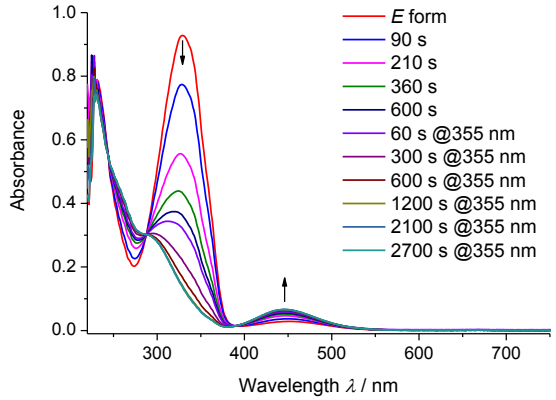

Figure S19. Photo-induced $E \rightarrow Z$ isomerisation of 8**b** upon irradiation at 329 nm (for the first 27 min.) and 355 nm, respectively ($c = 6.3 \times 10^{-5}$ mol·L^{-1} in dichloromethane).

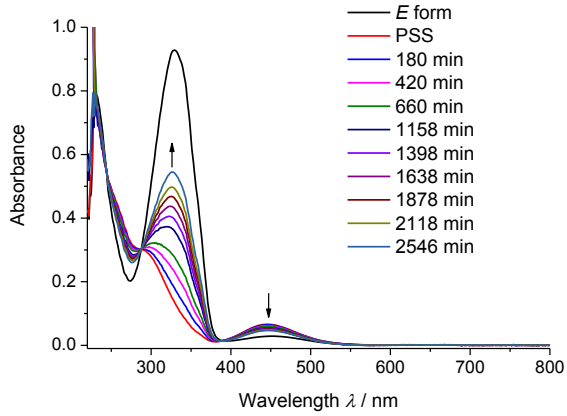

Figure S20. Thermal relaxation of the same solution as in Figure S19 at 24 °C.

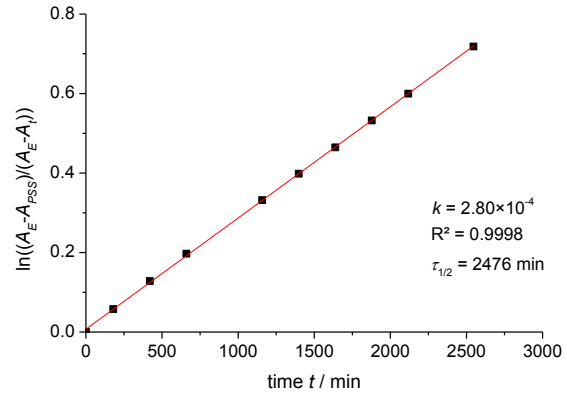

Figure S21. Determination of the half-life of **8b** at 24 °C.