Effect of solvent polarity on the spectroscopic properties of an alkynyl gold(I) gelator. The particular case of water

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Supplementary Information



Figure S1. Normalized UV-vis absorption spectra at 298 K corresponding to 1x10⁻⁴ M (solid line) and 1x10⁻⁴ M (dashed line) solutions of [Au(4-pyridylethynyl)(PTA)] in H₂O (left) and MeOH/ H₂O 60/40 (right).



Figure S2. Normalized UV-vis absorption spectra at 298 K corresponding to 1x10⁻⁴ M (solid line) and 1x10⁻⁴ M (dashed line) solutions of [Au(4-pyridylethynyl)(PTA)] in MeOH (left) and THF (right).



Figure S3. Emission recorded at 77 K (λ_{exc} = 340 nm) for the initial and aged 1x10⁻⁴ M solution of [Au(4-pyridylethynyl)(PTA)] in CH₃CN.



Figure S4. Emission recorded at 77 K (λ_{exc} = 340 nm) for the initial and aged 1x10⁻⁴ M solution of [Au(4-pyridylethynyl)(PTA)] in MeOH.



Figure S5. Emission recorded at 77 K (λ_{exc} = 340 nm) for the initial and aged 1x10⁻⁴ M solution of [Au(4-pyridylethynyl)(PTA)] in MeOH/H₂O 60/40.



Figure S6. Emission recorded at 77 K (λ_{exc} = 340 nm) for the initial and aged 1x10⁻⁴ M solution of [Au(4-pyridylethynyl)(PTA)] in THF.



Figure S7. Normalized emission (blue, $\lambda_{exc} = 340$ nm) and excitation spectra (red, $\lambda_{em} = 570$ nm; pink, $\lambda_{em} = 450$ nm; green, $\lambda_{em} = 412$ nm) recorded at 77 K for the aged CH₃CN solution of [Au(4-pyridylethynyl)(PTA)]. The absorption spectrum recorded at 298 K (black line) is also shown.



Figure S8. Normalized emission (blue, $\lambda_{exc} = 340 \text{ nm}$) and excitation spectra (red, $\lambda_{em} = 550 \text{ nm}$; purple, $\lambda_{em} = 500 \text{ nm}$; pink, $\lambda_{em} = 450 \text{ nm}$; green, $\lambda_{em} = 412 \text{ nm}$) recorded at 77 K for the aged MeOH solution of [Au(4-pyridylethynyl)(PTA)]. The absorption spectrum recorded at 298 K (black line) is also shown.



Figure S9. Normalized emission (blue, $\lambda_{exc} = 340 \text{ nm}$) and excitation spectra (red, $\lambda_{em} = 510 \text{ nm}$; pink, $\lambda_{em} = 450 \text{ nm}$; green, $\lambda_{em} = 410 \text{ nm}$) recorded at 77 K for the aged MeOH/H₂O 60/40 solution of [Au(4-pyridylethynyl)(PTA)]. The absorption spectrum recorded at 298 K (black line) is also shown.



Figure S10. Normalized emission (blue, $\lambda_{exc} = 340$ nm) and excitation spectra (pink, $\lambda_{em} = 490$ nm; green, $\lambda_{em} = 409$ nm) recorded at 77 K for the aged THF solution of [Au(4-pyridylethynyl)(PTA)]. The absorption spectrum recorded at 298 K (black line) is also shown.