

Supplementary Information for

Bisubstituted-Biquinoline Cu(I) complexes: synthesis, mesomorphism and photophysical studies in solution and condensed states

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Figure S14: Emission spectrum of **CuL3_X** in the solid state, at r.t.

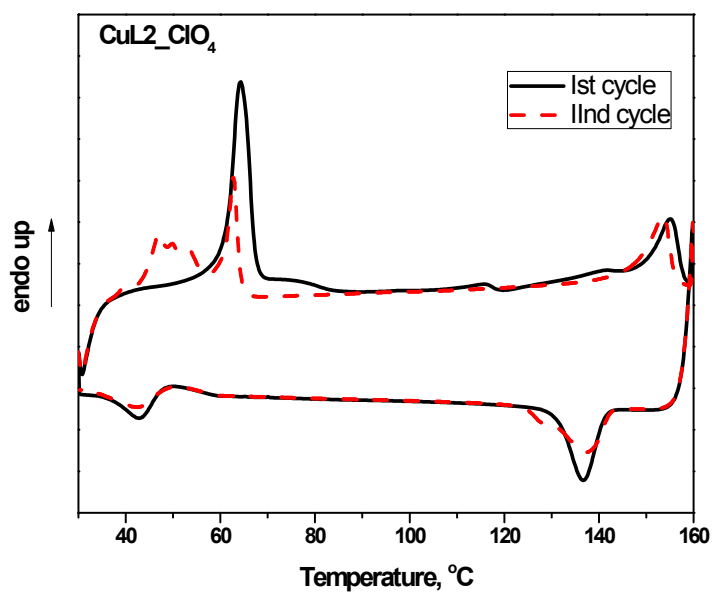


Figure S1. First and second cycle DSC traces of complex CuL2_ClO_4 obtained with a heating-cooling rate of $10^\circ\text{C}/\text{min}$.

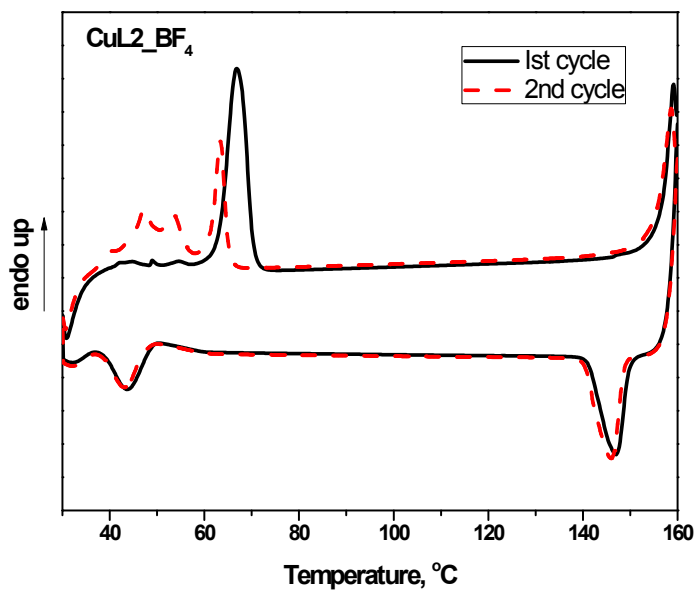


Figure S2. First and second cycle DSC traces of complex CuL2_BF_4 obtained with a heating-cooling rate of $10^\circ\text{C}/\text{min}$.

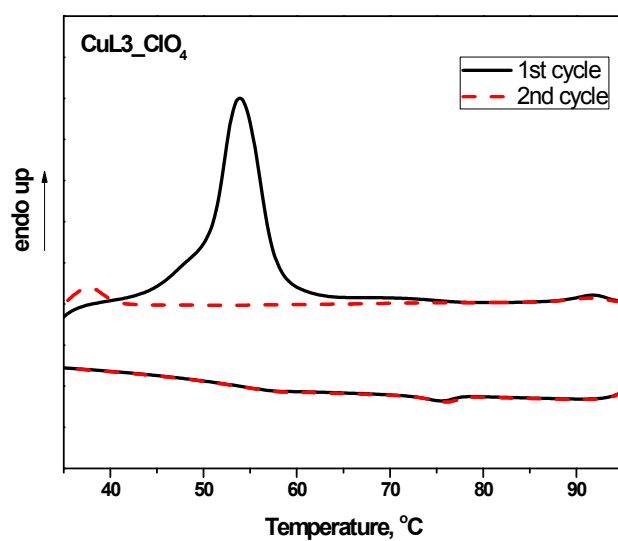


Figure S3. First and second cycle DSC traces of complex CuL3_ClO_4 obtained with a heating-cooling rate of $10^\circ\text{C}/\text{min}$.

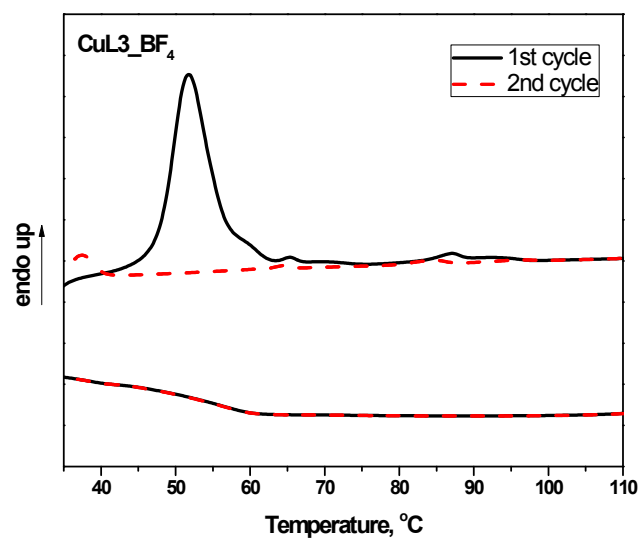


Figure S4. First and second cycle DSC traces of complex CuL3_BF_4 obtained with a heating-cooling rate of $10^\circ\text{C}/\text{min}$.

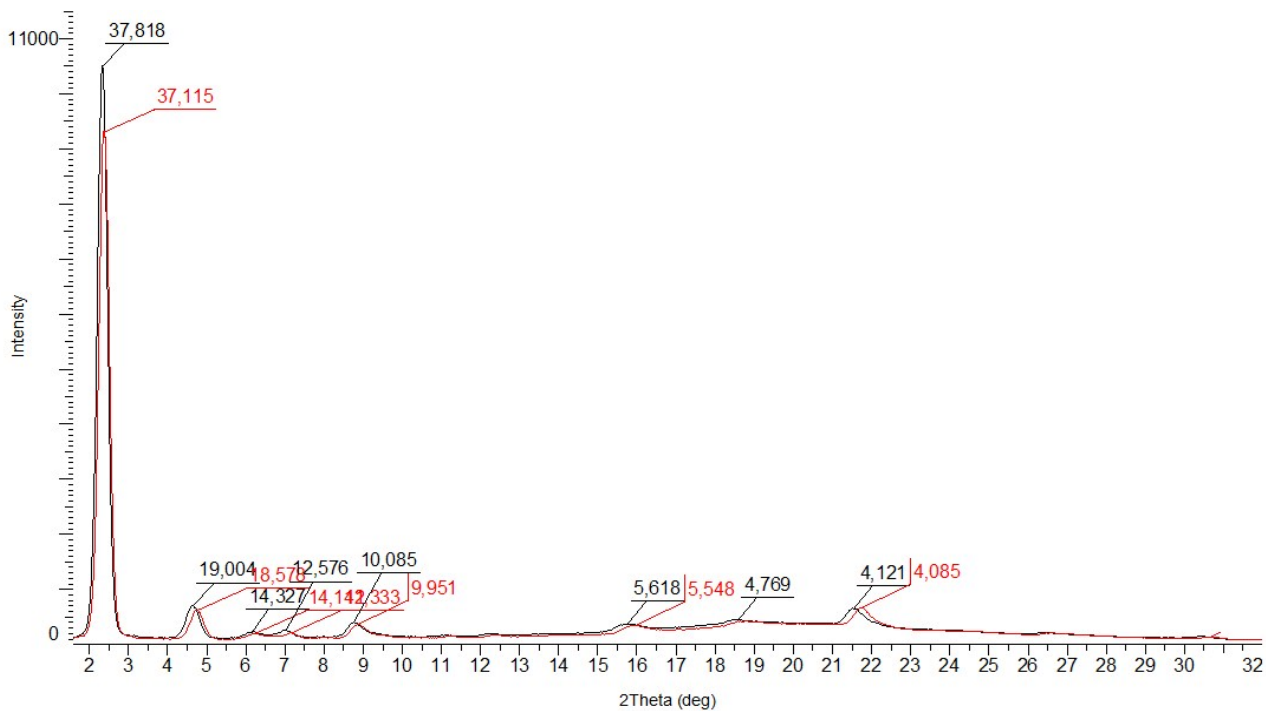


Figure S5. X-ray powder diffraction patterns of complex CuL2_BF_4 recorded on heating in the II cycle at 75 °C (red trace) and at 135 °C (black trace)

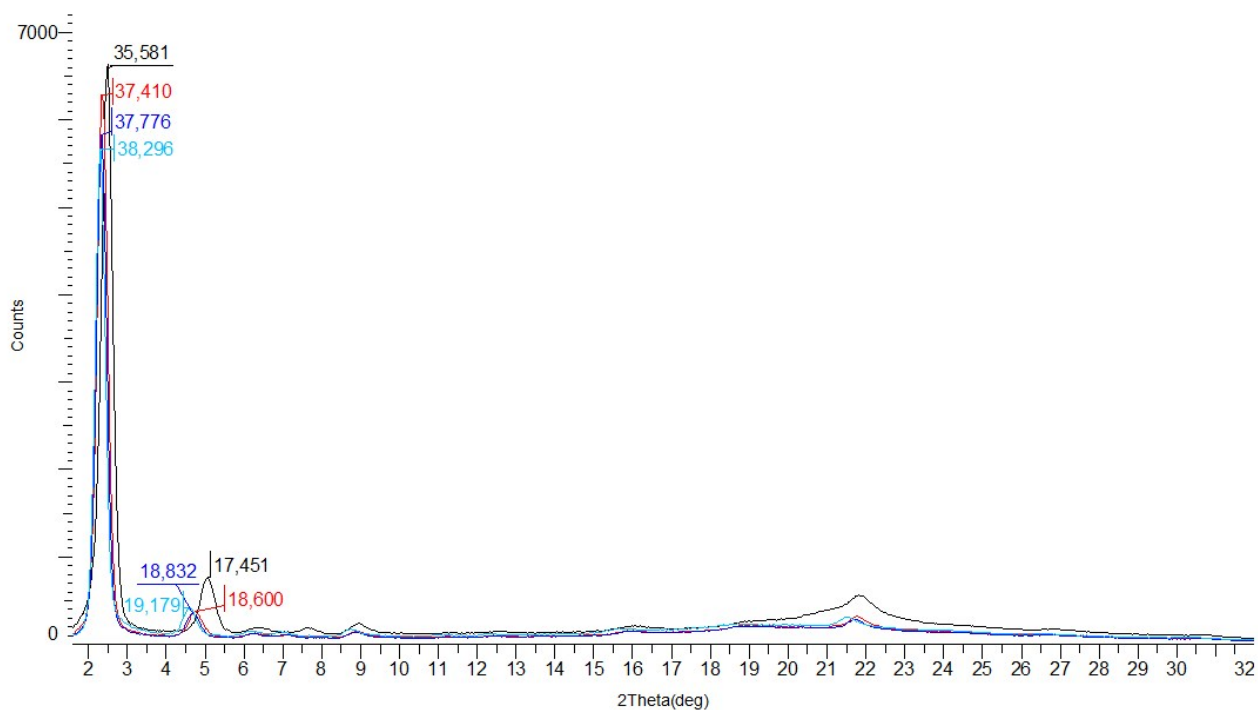


Figure S6: X-ray powder diffraction patterns of complex CuL2_ClO_4 recorded on heating in the II cycle at r.t. (black trace), 57° (red trace) , 70 °C (blue trace) and 130 °C (sky-blue trace)

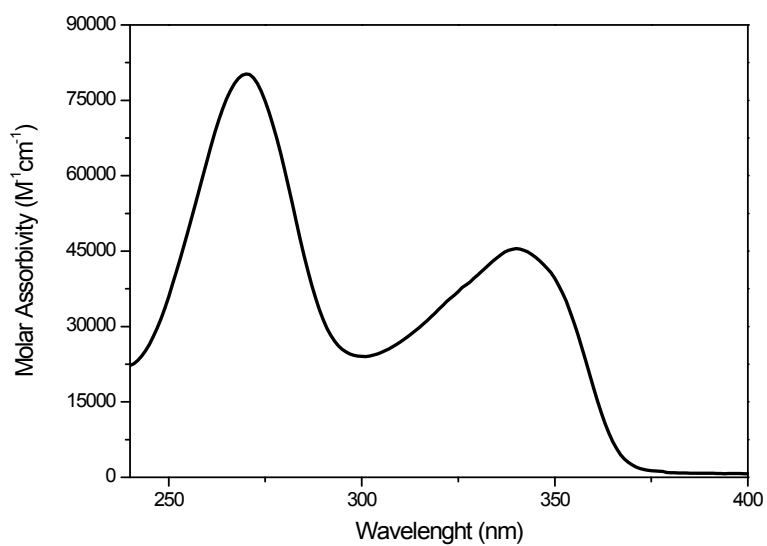


Figure S7. Absorption spectrum of **L2** in dichloromethane solution

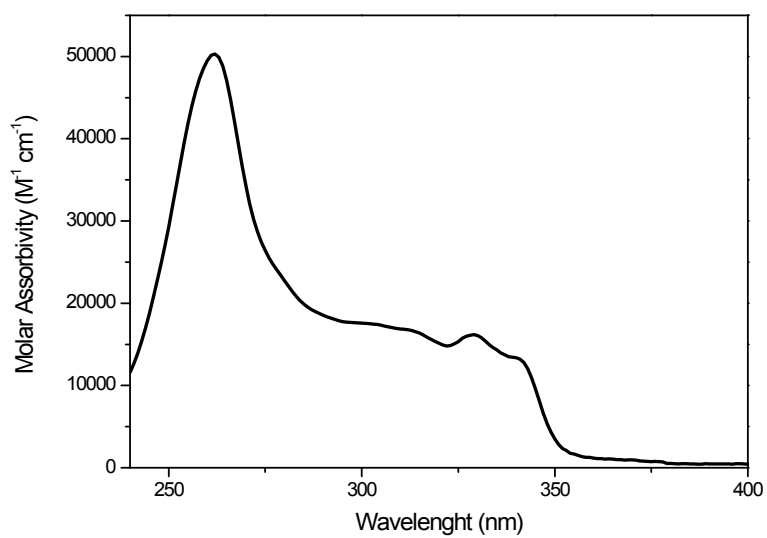


Figure S8. Absorption spectrum of **L3** in dichloromethane solution

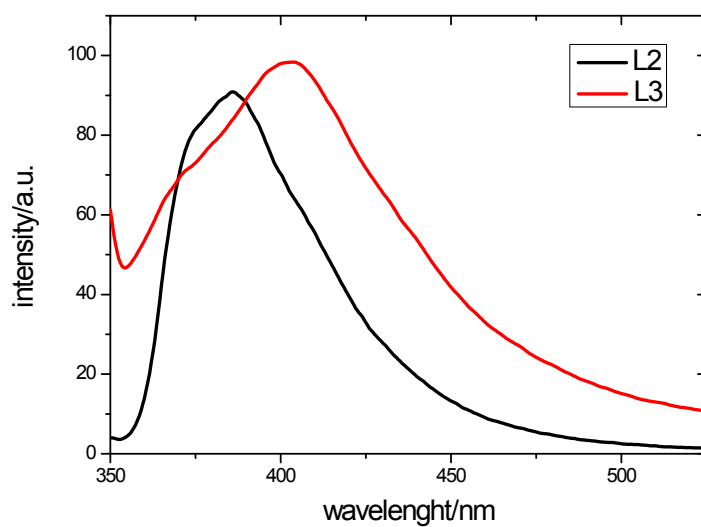


Figure S9. Emission spectra of the ligands L2 and L3 in dichloromethane solution

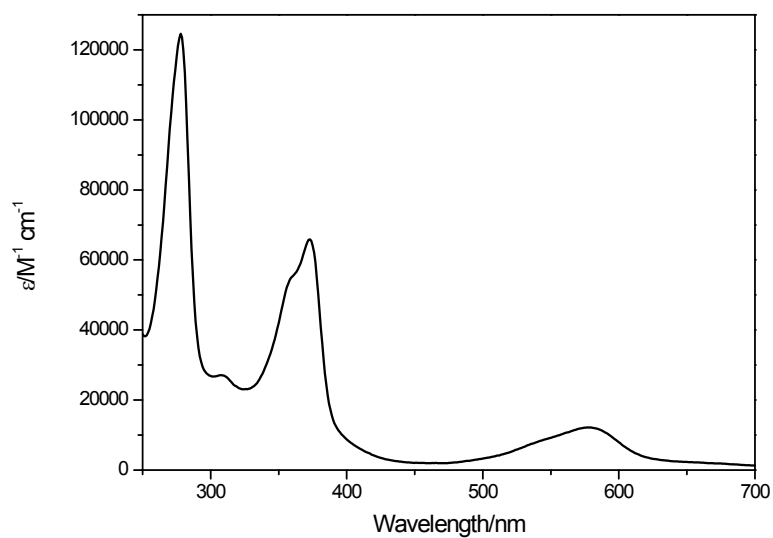


Figure S10. Absorption spectrum of **CuL2·ClO4** in dichloromethane solution

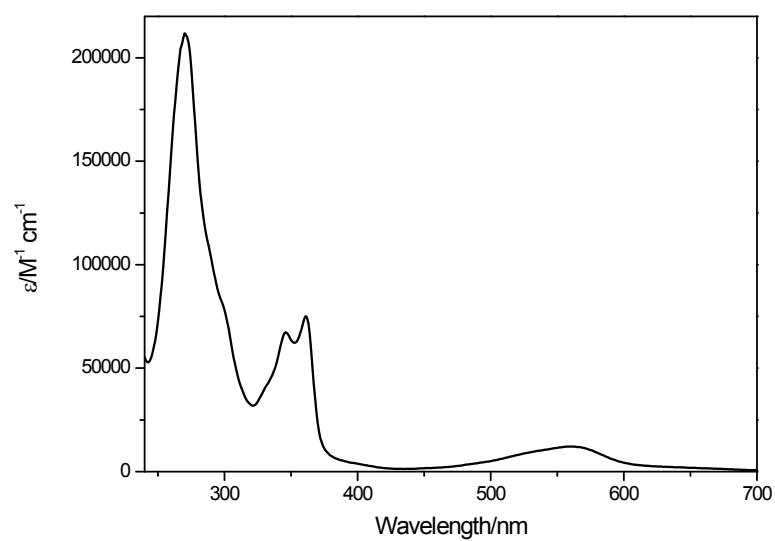


Figure S11. Absorption spectrum of **CuL3_ClO4** in dichloromethane solution

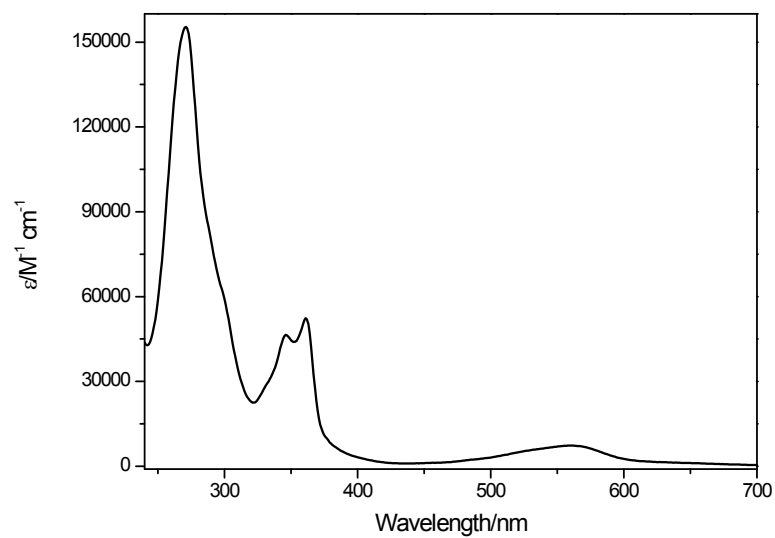


Figure S12. Absorption spectrum of **CuL3_BF4** in dichloromethane solution

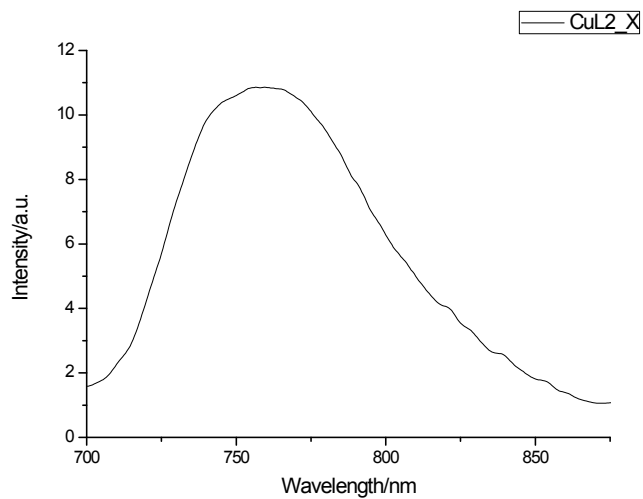


Figure S13. Emission spectrum of **CuL2_X** from a solid sample at room temperature ($\lambda_{\text{ex}} = 570 \text{ nm}$).

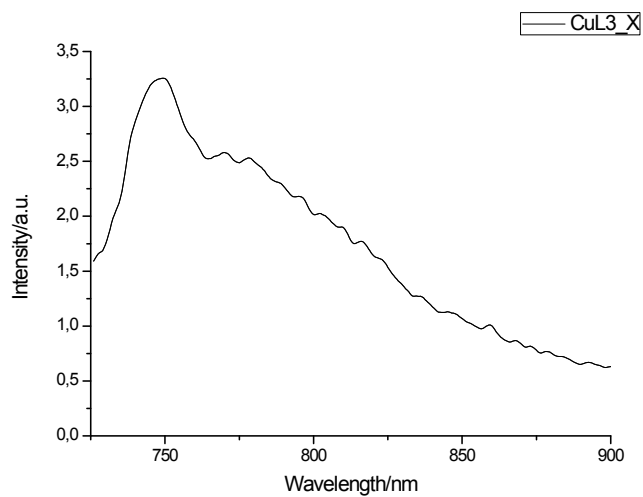


Figure S14. Emission spectrum of **CuL3_X** from a solid sample at room temperature ($\lambda_{\text{ex}} = 570 \text{ nm}$).