SUPPLEMENTARY MATERIAL

Synthesis, crystal structure and photoluminescent properties of novel 9-cyano-pyrrolo[1,2-*a*][1,10]phenanthrolines

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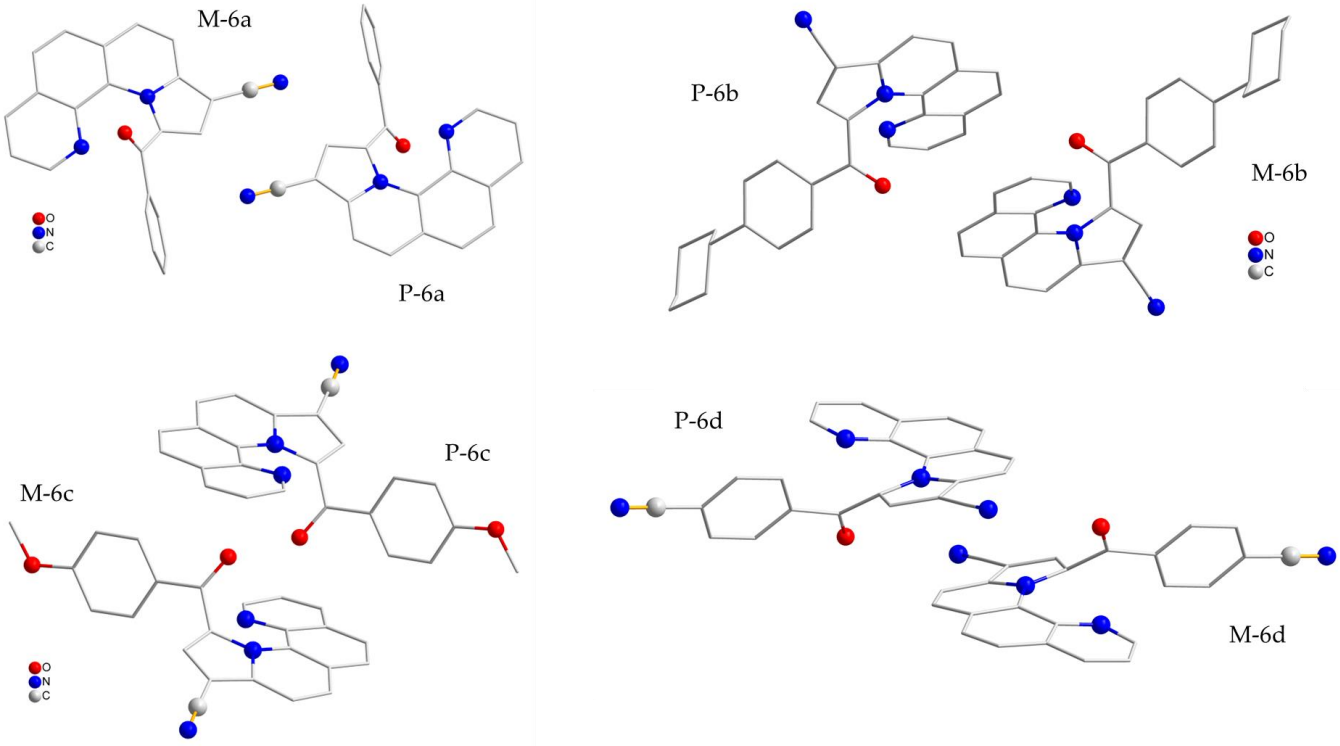


Figure S1. Perspective views of the crystal structures of two neighboring enantiomers (M and P) of compounds **6a-d**. Hydrogen atoms have been omitted in the representations.

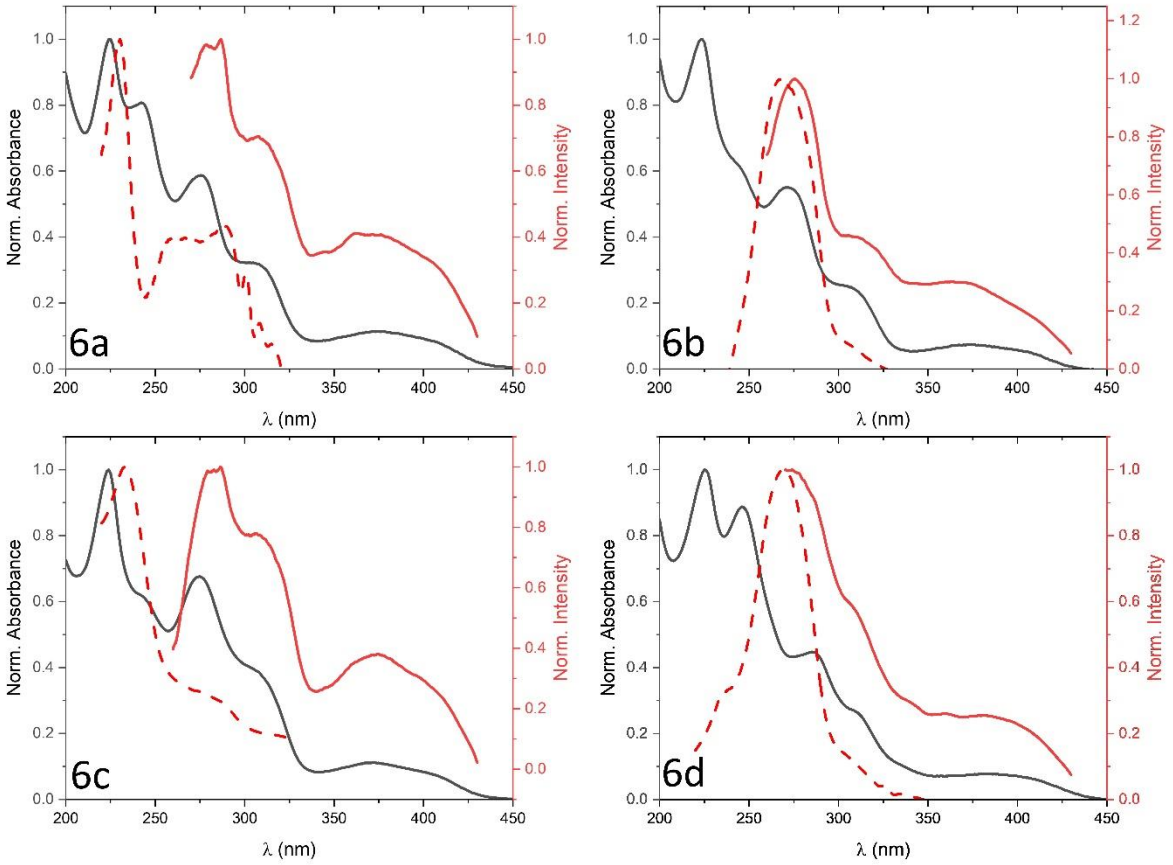
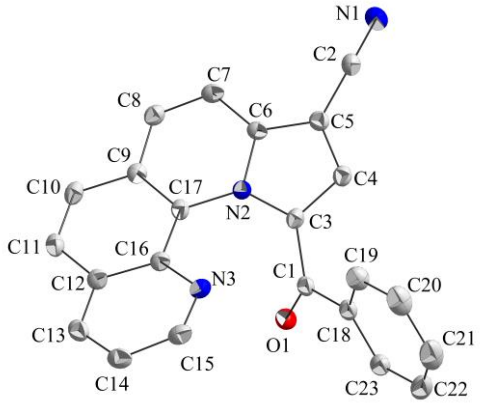
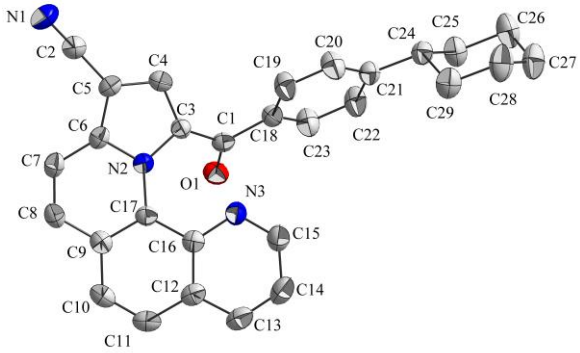


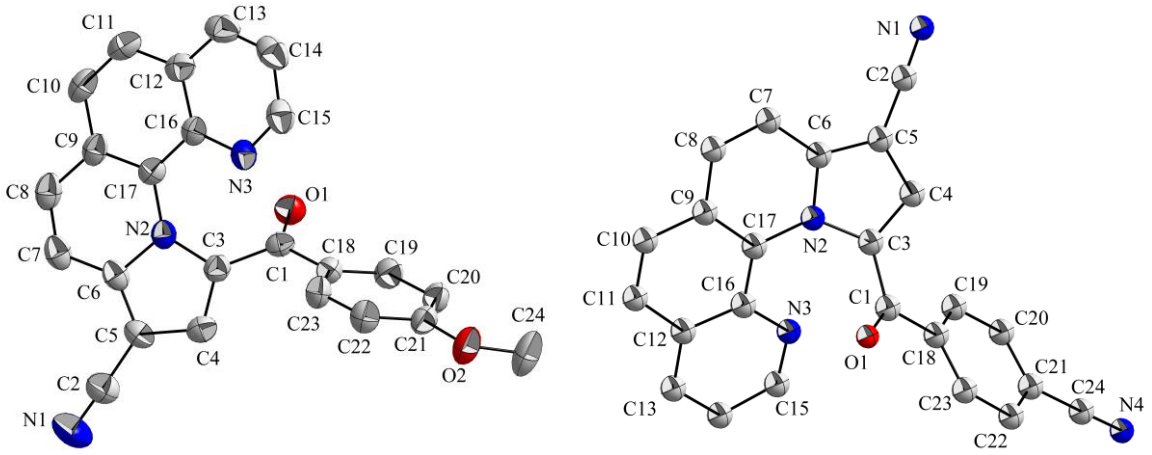
Figure S2. Normalized absorption spectrum (black solid line) and normalized excitation spectrum for band 1 (dotted red line) and band 2 (solid red line) of compound **6a** ($\lambda_{em,1}$ = 330 nm, $\lambda_{em,2}$ = 500 nm), **6b** ($\lambda_{em,1}$ = 370 nm, $\lambda_{em,2}$ = 500 nm), **6c** ($\lambda_{em,1}$ = 370 nm, $\lambda_{em,2}$ = 500 nm), **6d** ($\lambda_{em,1}$ = 360 nm, $\lambda_{em,2}$ = 500 nm) in acetonitrile. The excitation and emission slits for compound **6b** when monitoring the emission at 370 nm were narrowed down to 3 nm each. $\lambda_{em,1}$ and $\lambda_{em,2}$ represent the wavelength at which the emission was monitored for band 1 and band 2, respectively.



6a



6b



6c **6d**

Figure S3. Thermal ellipsoid representation of the molecular structure of compounds **6a-d.**