

Supplementary material

Stereochemical Modulation of Emission Behavior in *E/Z* Isomers of Diphenyldipyrroethene from Aggregation Induced Emission to Crystal Induced Emission

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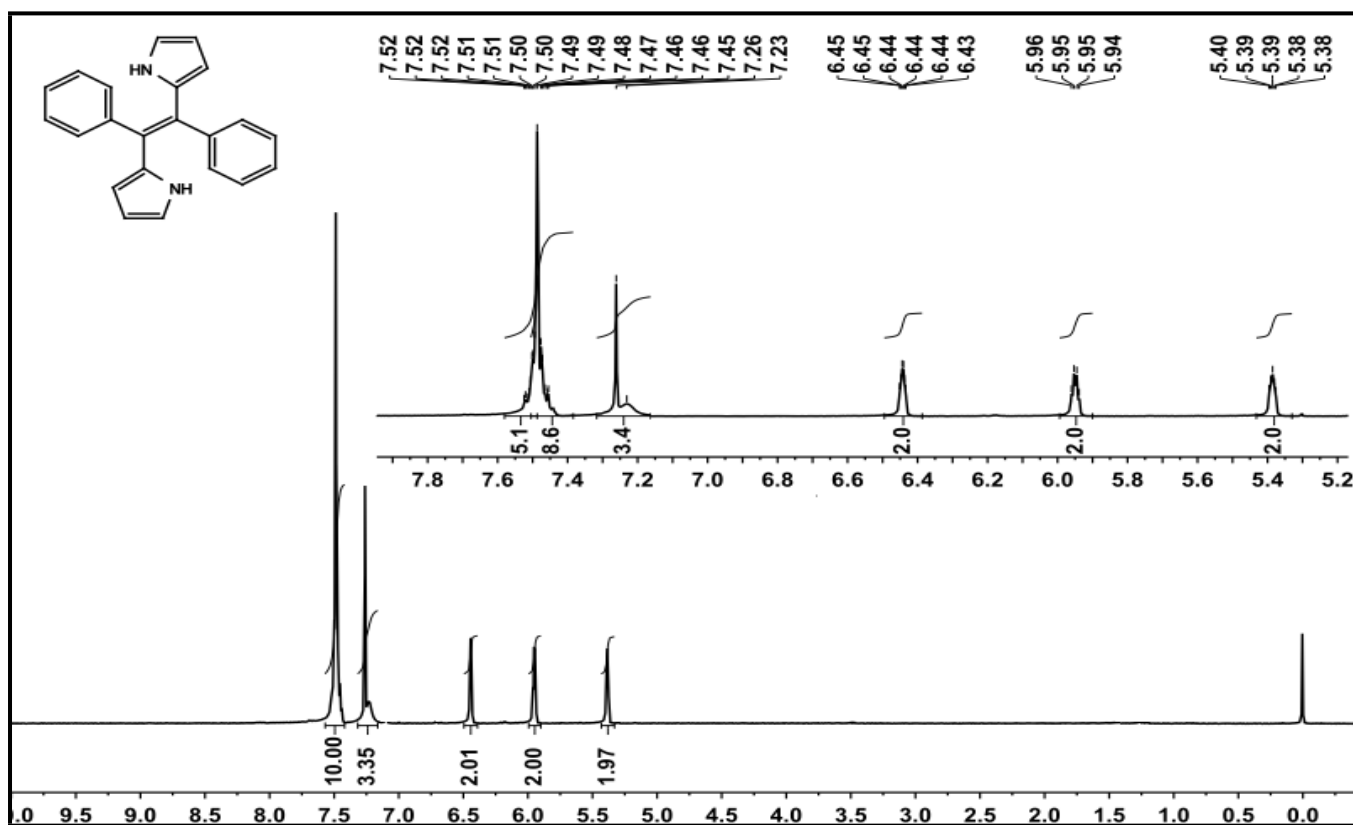


Figure S1: ^1H NMR spectrum of *E*-DPYDPE recorded in CDCl_3 . Inset shows the expansion.

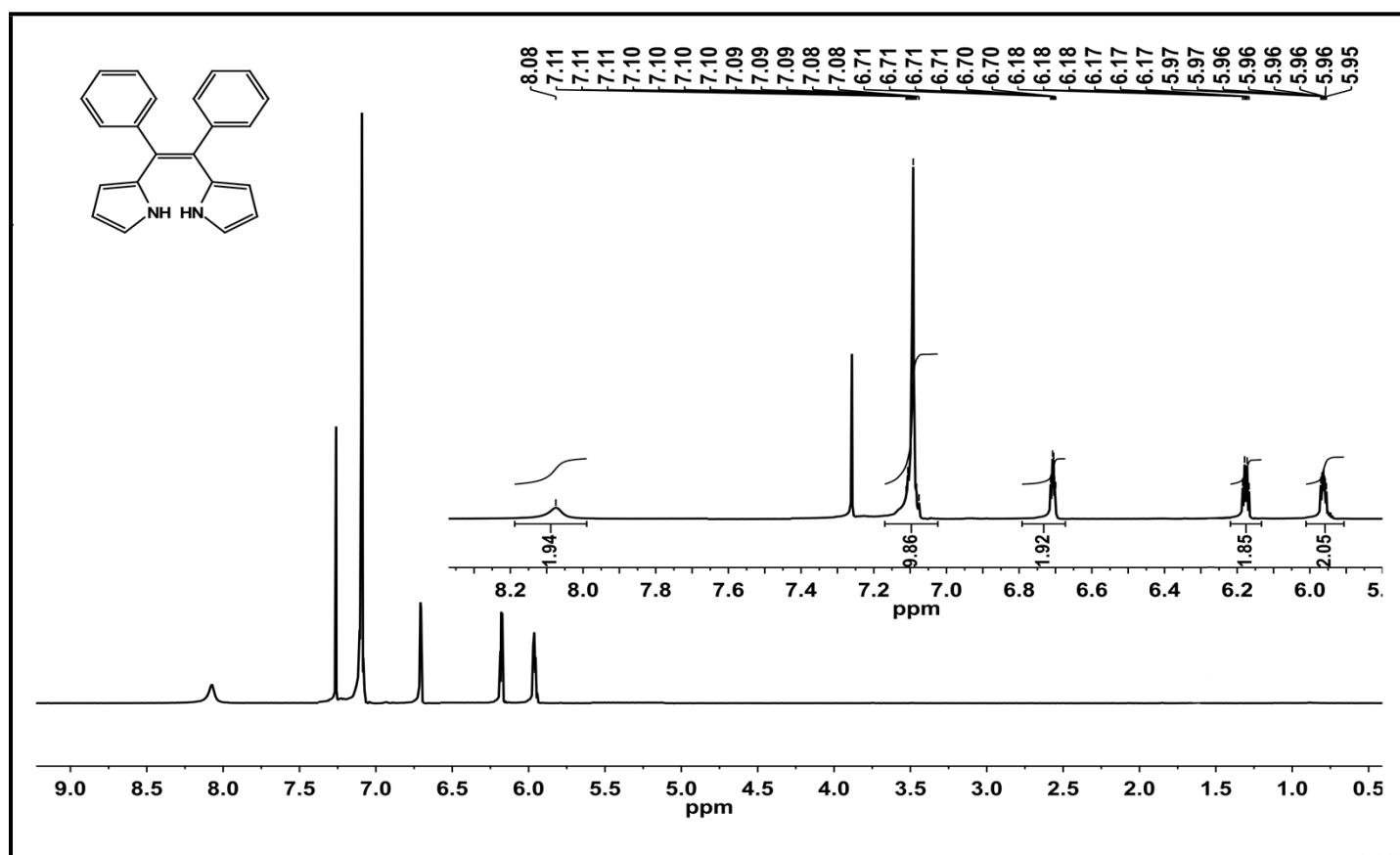


Figure S2: ^1H NMR spectrum of Z-DPYDPE recorded in CDCl_3 . Inset shows the expansion

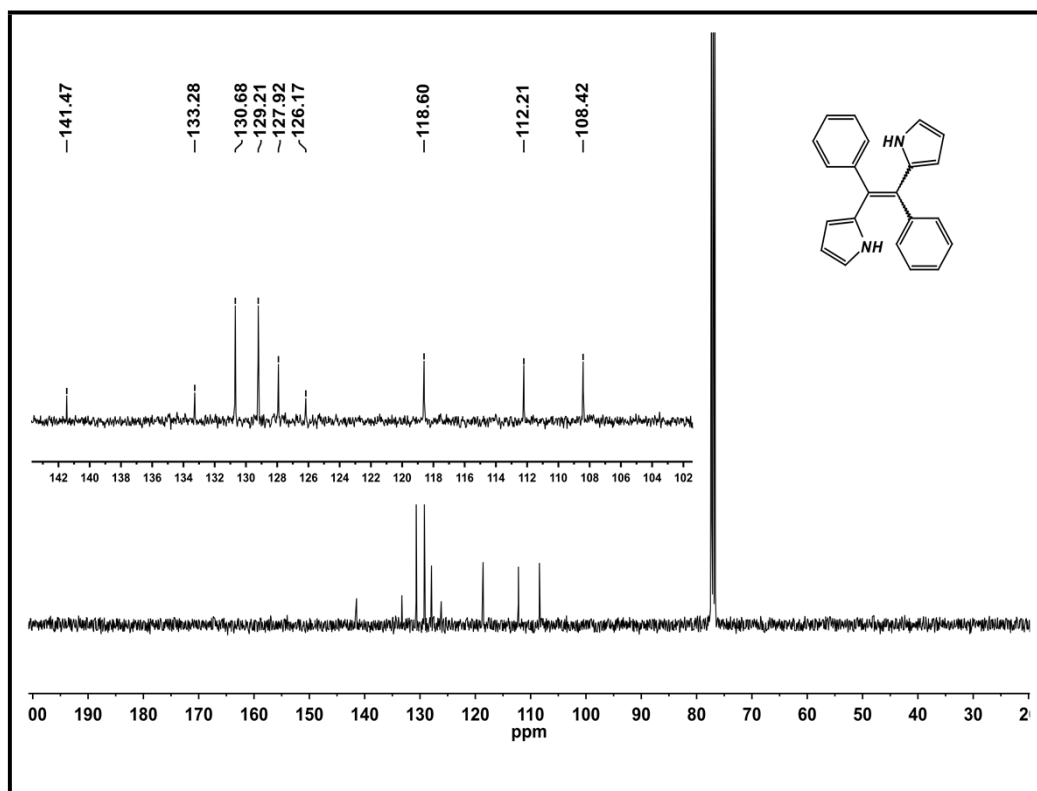


Figure S3: ^{13}C NMR spectrum of *E*-DPYDPE recorded in CDCl_3 . Inset shows the expansion.

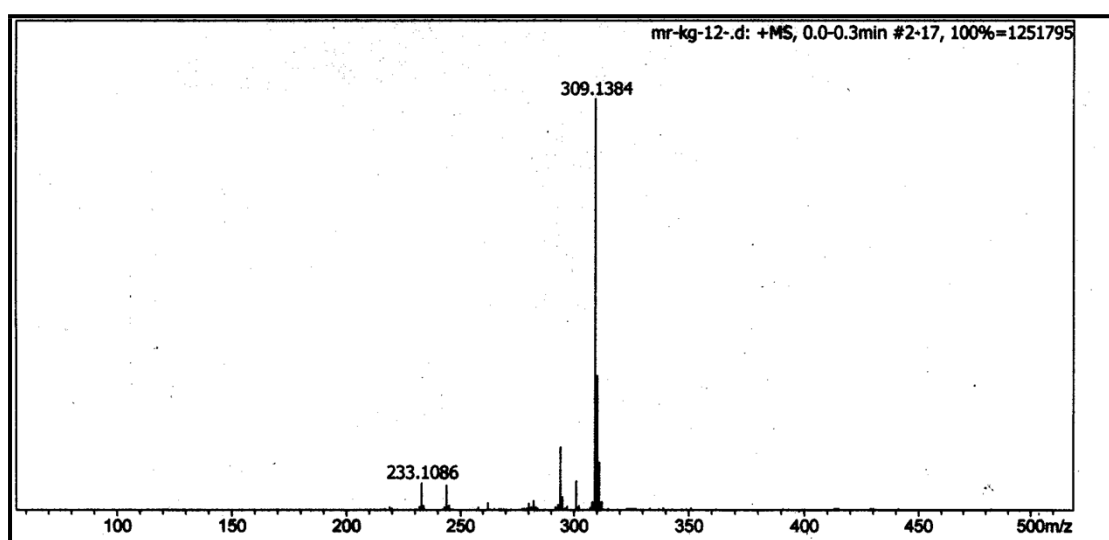


Figure S4: LRMS spectrum of DPYDPE

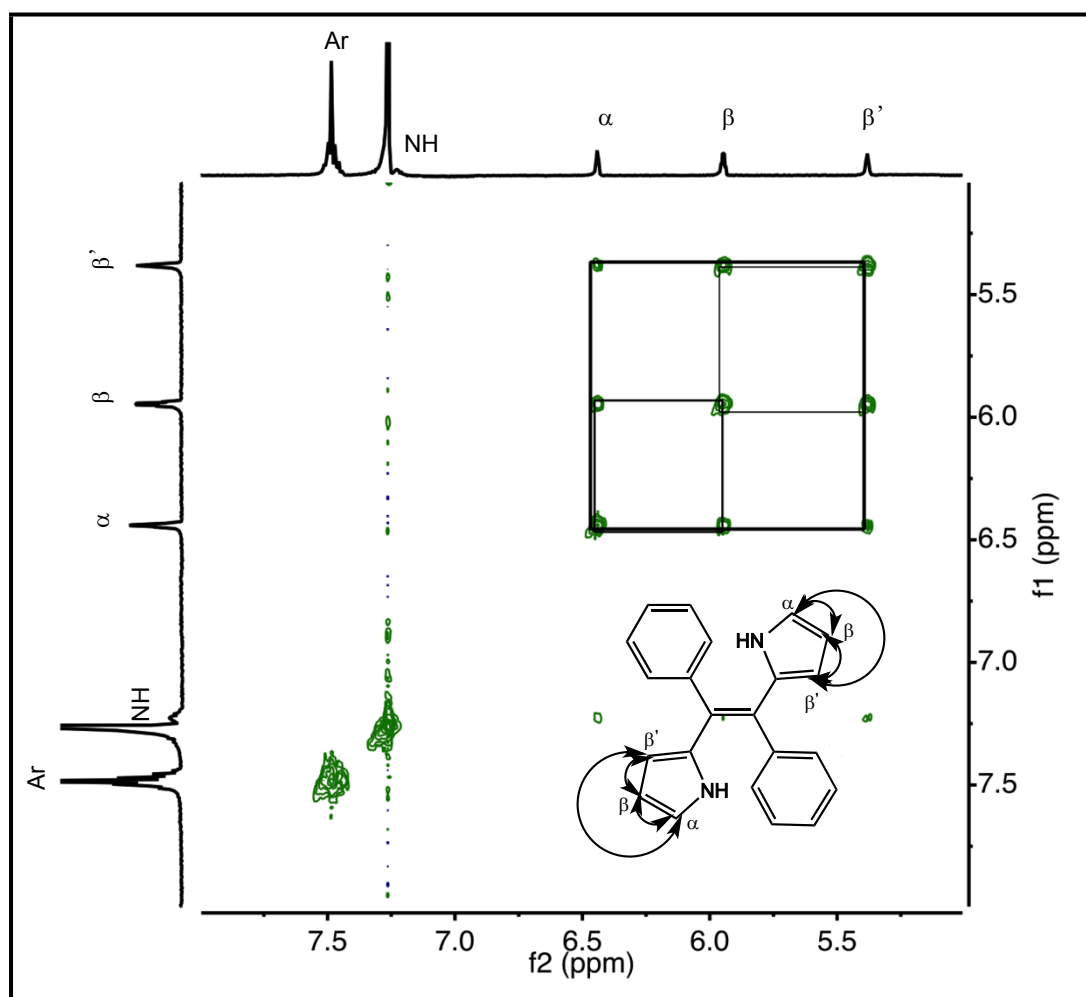


Figure S5: ^1H - ^1H COSY NMR spectrum of *E*-DPYDPE recorded in CDCl_3 .

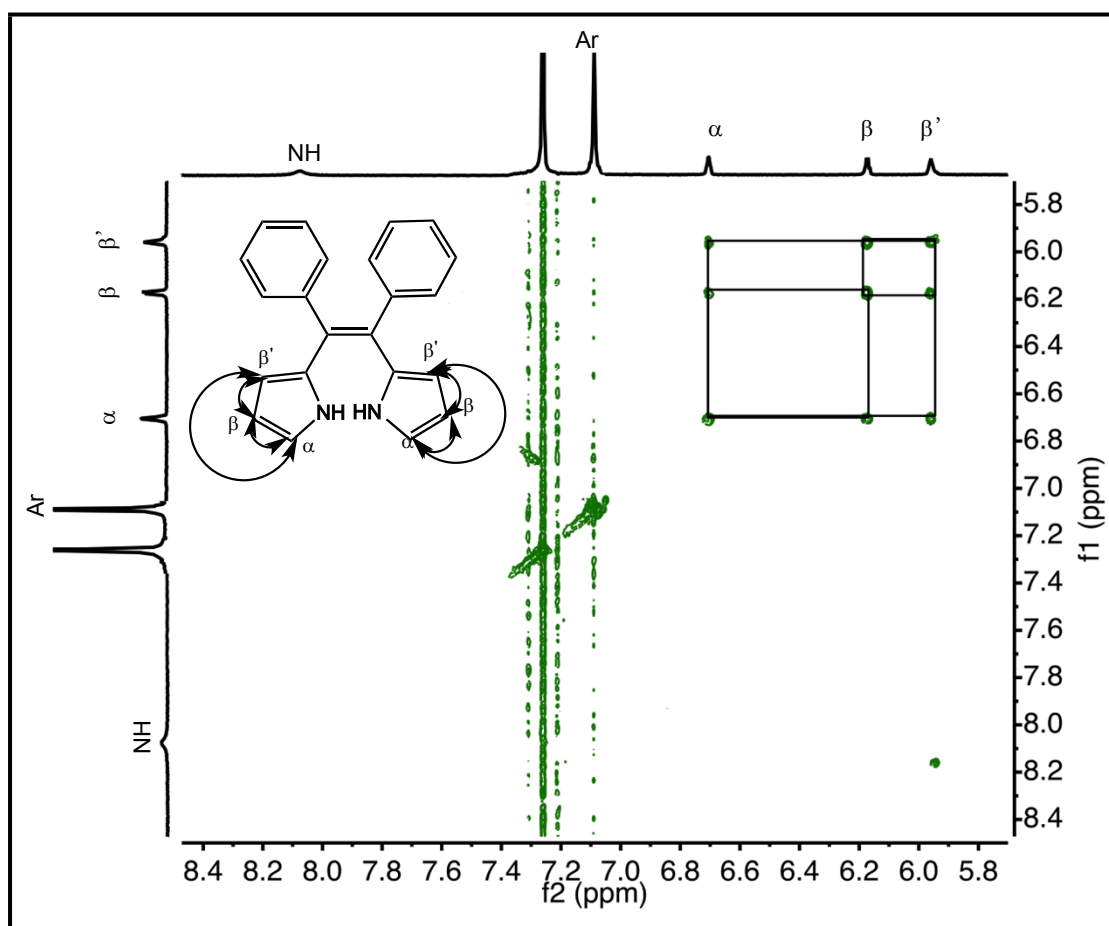


Figure S6: ^1H - ^1H COSY NMR spectrum of Z-DPYDPE recorded in CDCl_3 .

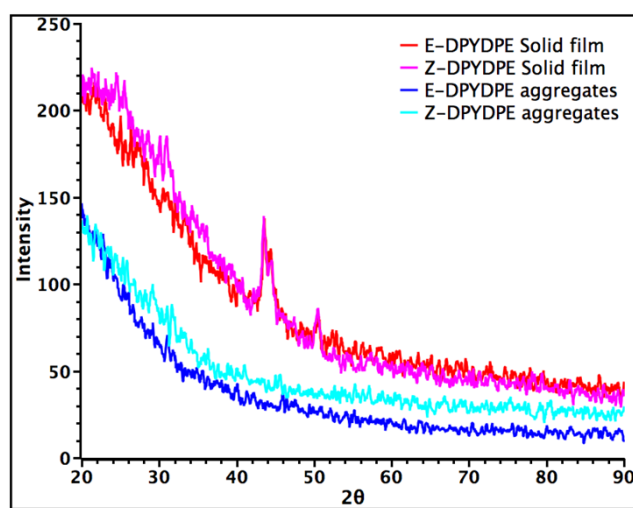


Figure S7: Powder X-Ray Diffraction of thin film and nanoaggregates

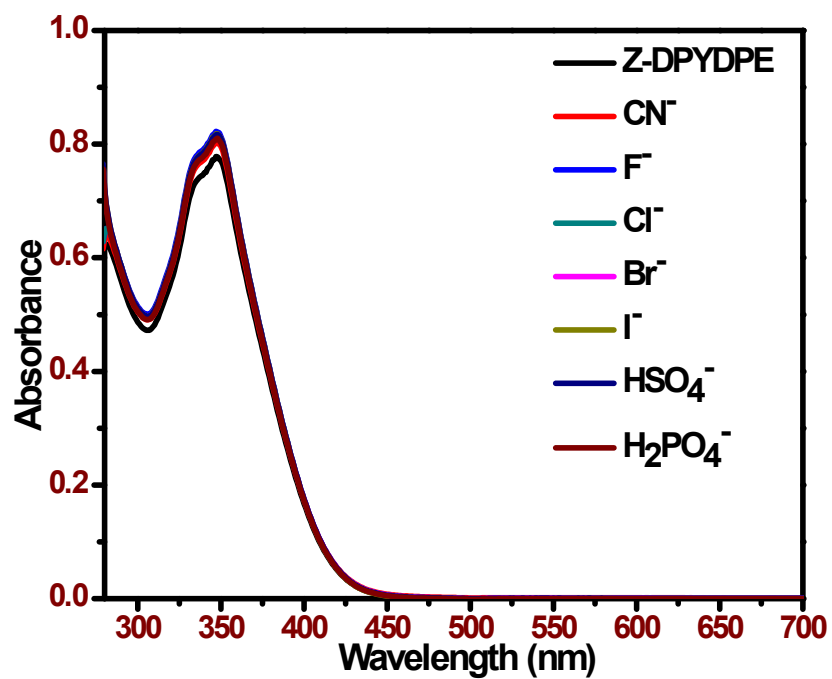


Figure S8: Comparison of absorption spectra of Z-DPYDPE with in presence of various anions (tetrabutyl ammonium salt) recorded in CH₃CN solvent.

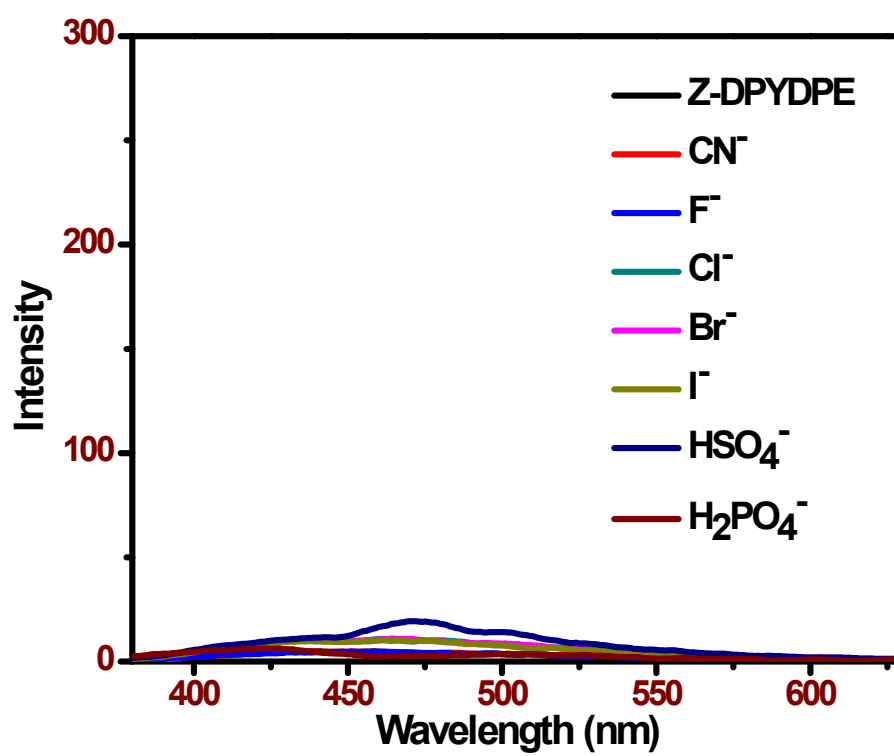


Figure S9: Comparison of emission spectra of Z-DPYDPE with in presence of various anions (tetrabutyl ammonium salt) recorded in CH₃CN solvent.



Figure S10: Colour change induced upon addition of (excess equivalents of perchlorate salts) different metal ions to Z-DPYDPE (in CH_3CN) under daylight: From left to right: (1) no metal ion, (2) Zn^{2+} , (3) Cu^{2+} , (4) Fe^{2+} , (5) Hg^{2+} , (6) Ni^{2+} , (7) Co^{2+} , (8) Cd^{2+} , (9) Mn^{2+}



Figure S11: Colour change induced upon addition of (excess equivalents of perchlorate salts) different metal ions to Z-DPYDPE (in CH₃CN) under UV lamp: From left to right: (1) no metal ion, (2) Zn²⁺, (3) Cu²⁺, (4) Fe²⁺, (5) Hg²⁺, (6) Ni²⁺, (7) Co²⁺, (8) Cd²⁺, (9) Mn²⁺