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Supplementary Information

The modulation of fluorescent properties of diketopyrrolopyrroles via various electron-rich substituents

Anna Purc, Marzena Banasiewicz, Eliza Glodkowska-Mrowka and Daniel. T. Gryko

S1. Optical properties

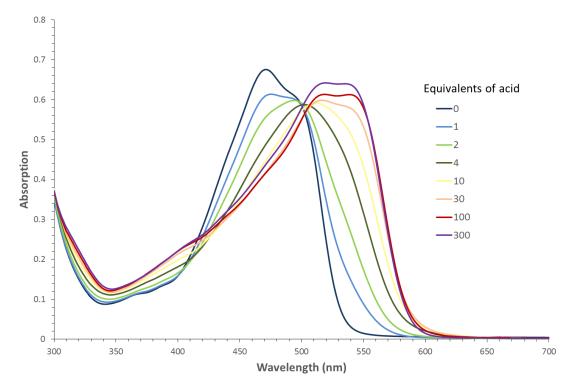


Fig. S1.1 Titration of compound 8 with TFA.

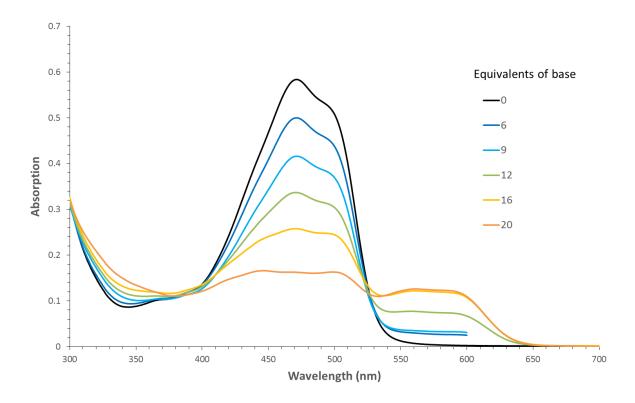


Fig. S1.2 Titration of compound 8 with benzyltrimethylammonium hydroxide.

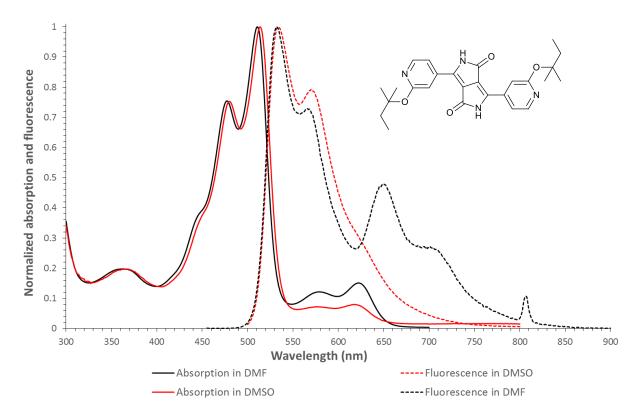


Fig. S1.3 Normalized absorption and fluorescence of compound 4 in DMF and DMSO.

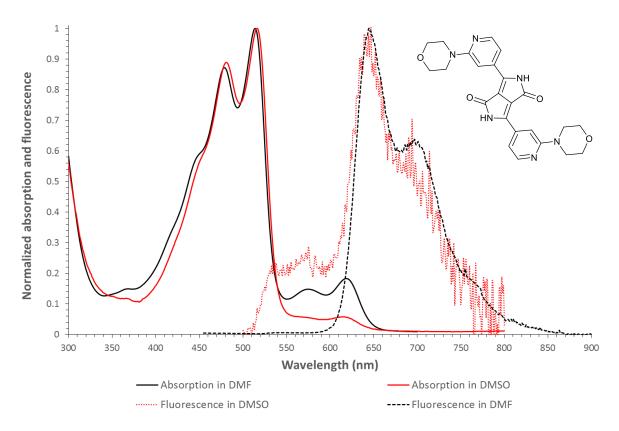


Fig. S1.4 Normalized absorption and fluorescence of compound 6 in DMF and DMSO.

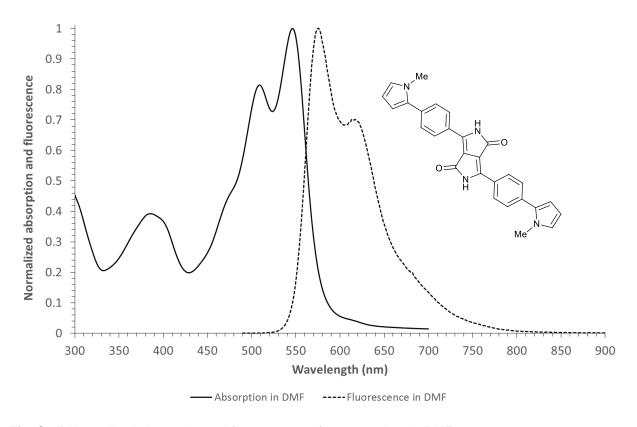


Fig. S1.5 Normalized absorption and fluorescence of compound 10 in DMF.

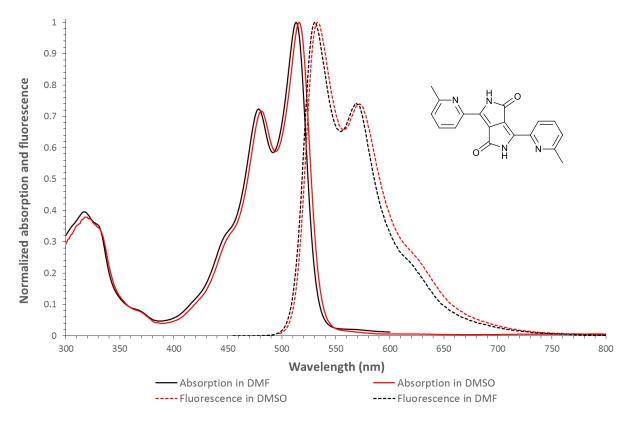


Fig. S1.6 Normalized absorption and fluorescence of compound 13 in DMF and DMSO.

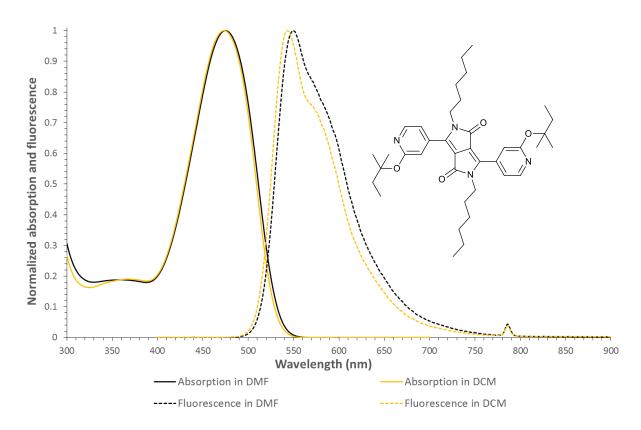


Fig. S1.7 Normalized absorption and fluorescence of compound 5 in DMF and DCM.

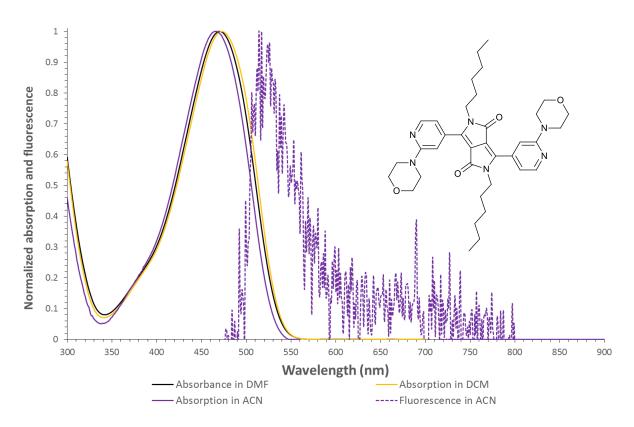


Fig. S1.8 Normalized absorption and fluorescence of compound 7 in DMF, DCM and acetonitrile.

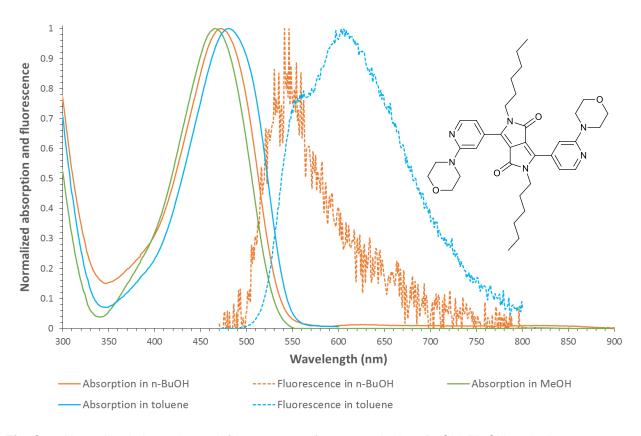


Fig. S1.9 Normalized absorption and fluorescence of compound 7 in *n*-BuOH, MeOH and toluene.

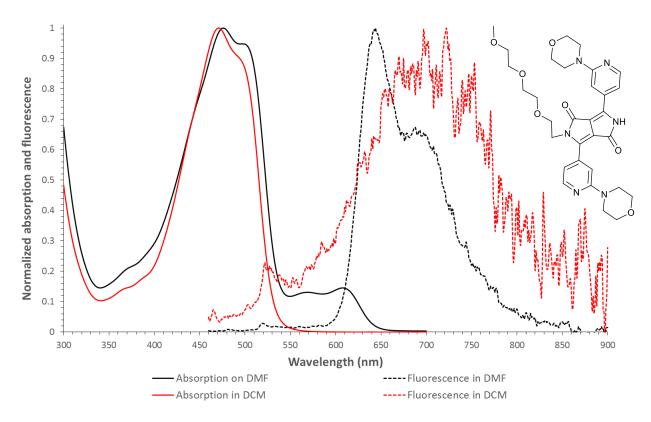


Fig. S1.10 Normalized absorption and fluorescence of compound 8 in DMF and DCM.

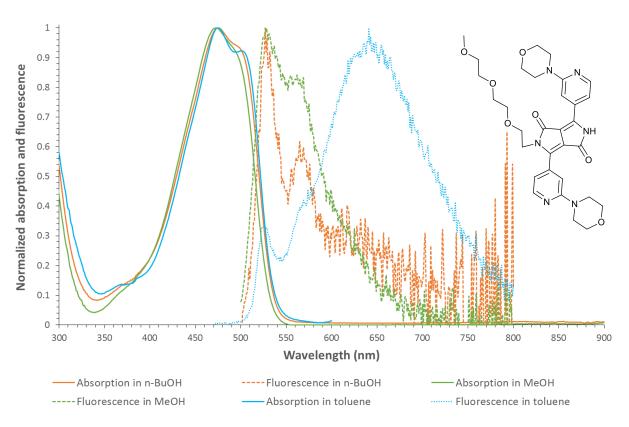


Fig. S1.11 Normalized absorption and fluorescence of compound 8 in *n*-BuOH, MeOH and toluene.

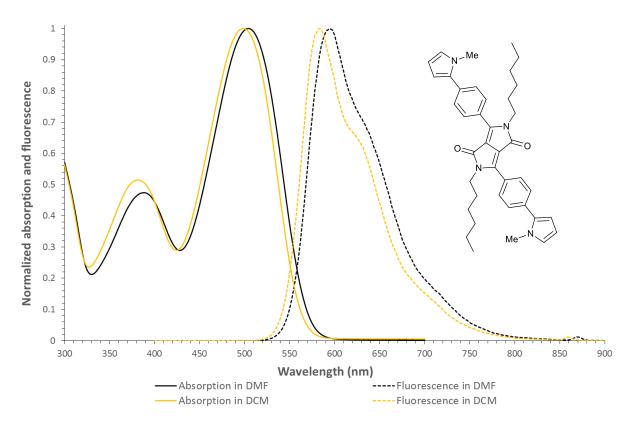


Fig. S1.12 Normalized absorption and fluorescence of compound 11 in DMF and DCM.

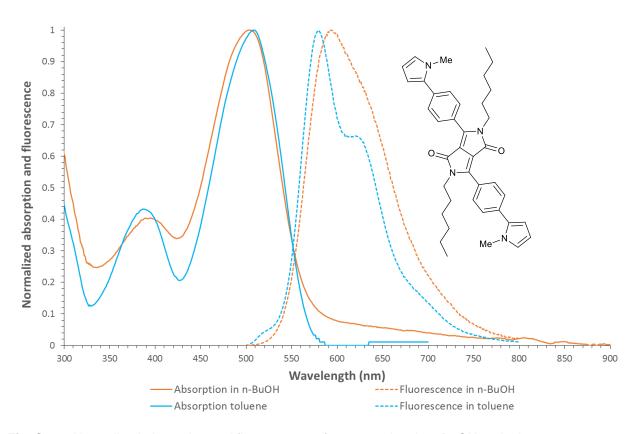


Fig. S1.13 Normalized absorption and fluorescence of compound 11 in n-BuOH and toluene.

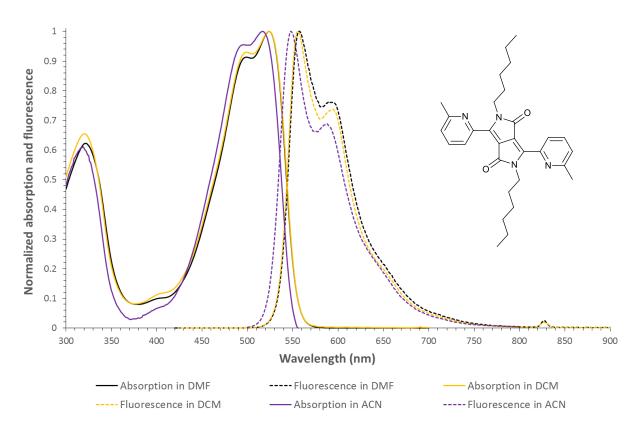


Fig. S1.14 Normalized absorption and fluorescence of compound 14 in DMF, DCM and acetonitrile.

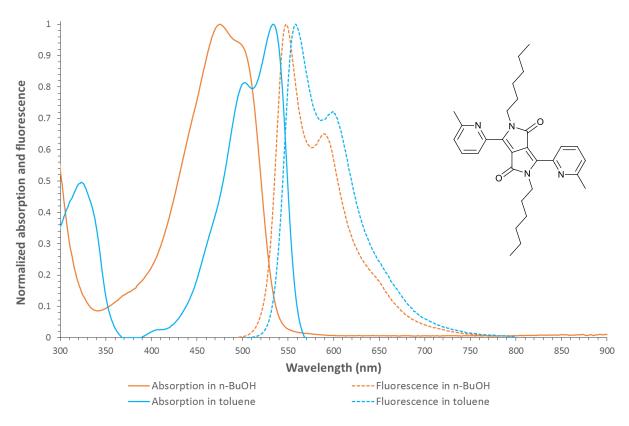


Fig. S1.15 Normalized absorption and fluorescence of compound 14 in DMF.

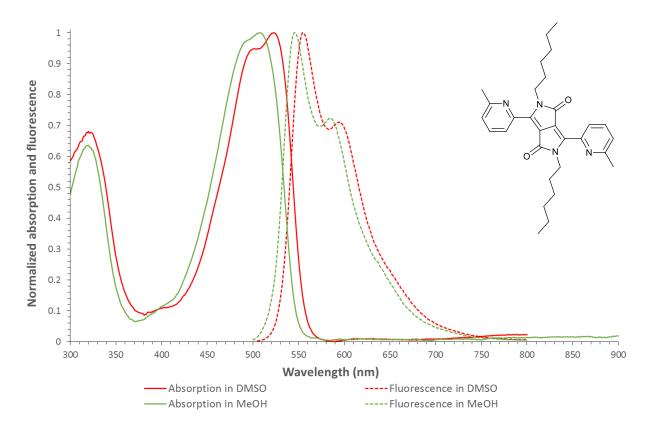


Fig. S1.16 Normalized absorption and fluorescence of compound 14 in DMSO and MeOH.

S2. Spectra 1H and 13C NMR for dyes synthesized

