

Highly ordered π -extended discotic liquid-crystalline triindoles

Eva M. García-Frutos, Ana Omenat, Joaquín Barberá, José Luis Serrano and Berta Gómez-Lor*

Supporting Information

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1. Cyclic Voltammetry Measurements

Cyclic voltammetric (CV) experiments were performed on an Epsilon Electrochemical Analyzer in a three electrode cell (Pt working electrode) at room temperature, under nitrogen atmosphere. Electrochemical measurements were performed in a millimolar CH₂Cl₂ solution of compounds Series I and Series II containing 0.1 M of recrystallized supporting electrolyte tetra-*n*-butylammonium hexafluorophosphate (TBAPF₆). Potentials were measured against Ag/AgCl as reference electrode. A large area coiled Pt wire was used as a counter electrode.

Table S1 . Cyclic Voltammetry data for Series I and Series II

Compounds	Series I		Compounds	Series II			
	First Oxidation wave E _{1/2}	Second Oxidation wave E _{1/2}		First Oxidation wave E _{1/2}	Second Oxidation wave E _{1/2}	Third Oxidation wave E _{1/2}	Fourth Oxidation wave E _{1/2}
1	0.77	1.33	8	0.67	0.83	1.11	1.35
2	0.72	1.28	9	0.53	0.80	1.03	1.27
3	0.71	1.20	10	0.47	0.69	0.89	1.10
5	0.70	1.21	11	0.49	0.72	1.11	

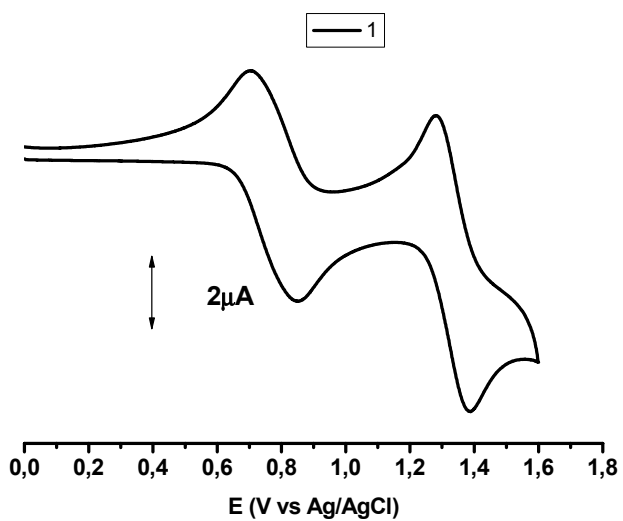


Figure S1. Cyclic voltammogram of 1.

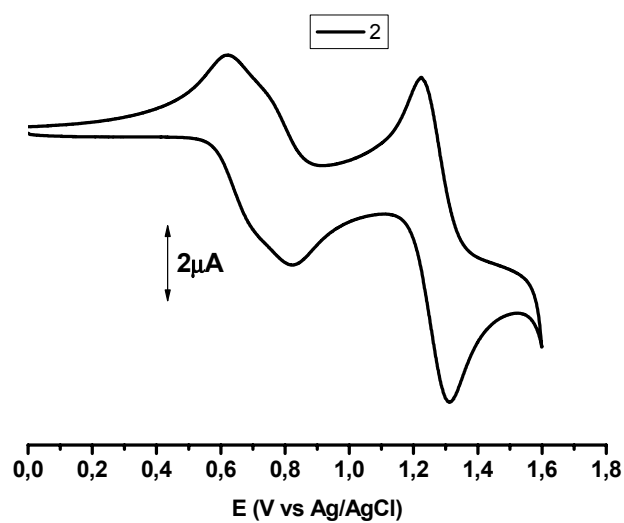


Figure S2. Cyclic voltammogram of 2.

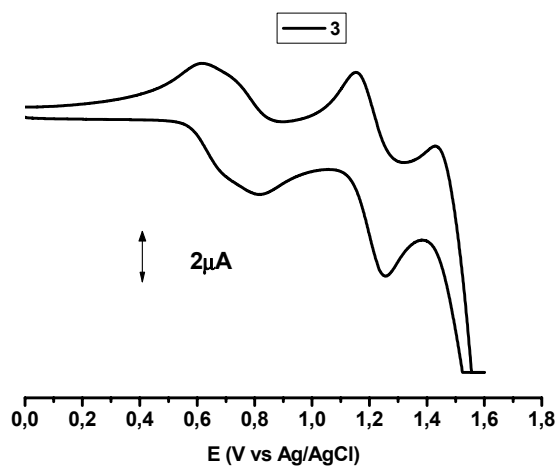


Figure S3. Cyclic voltammogram of 3.

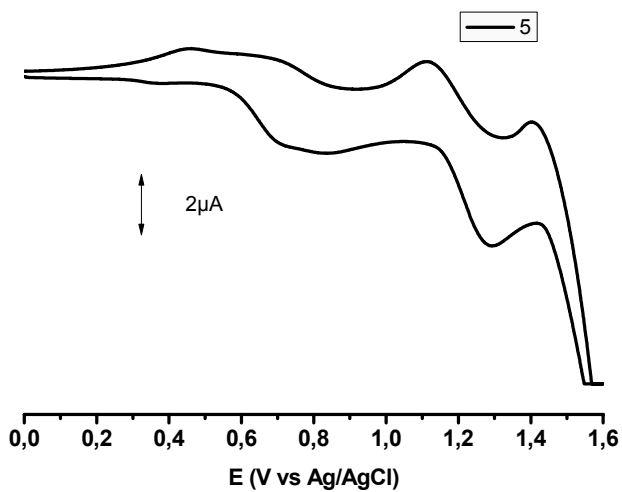


Figure S4. Cyclic voltammogram of 5.

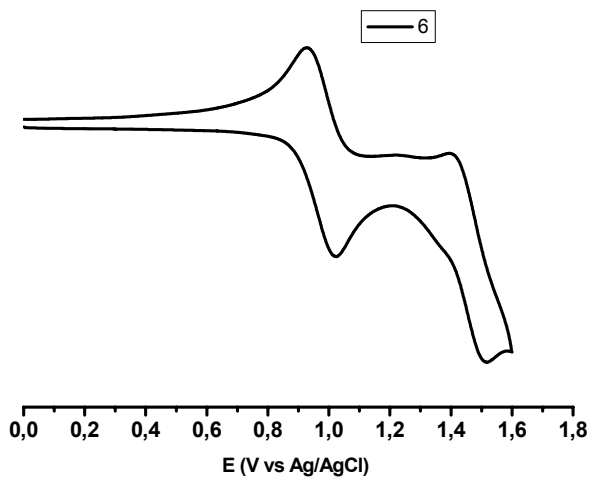


Figure S5. Cyclic voltammogram of **6**.

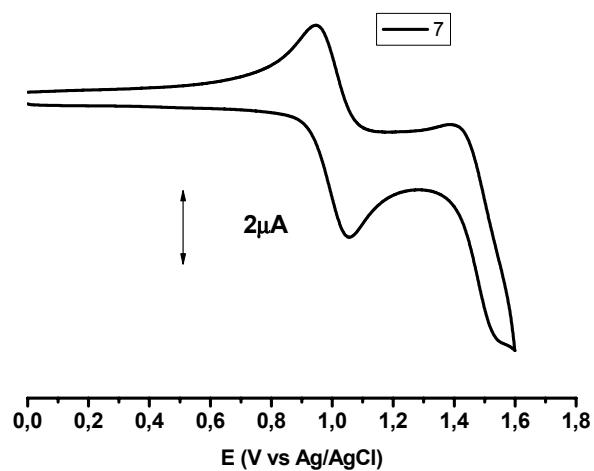


Figure S6. Cyclic voltammogram of **7**.

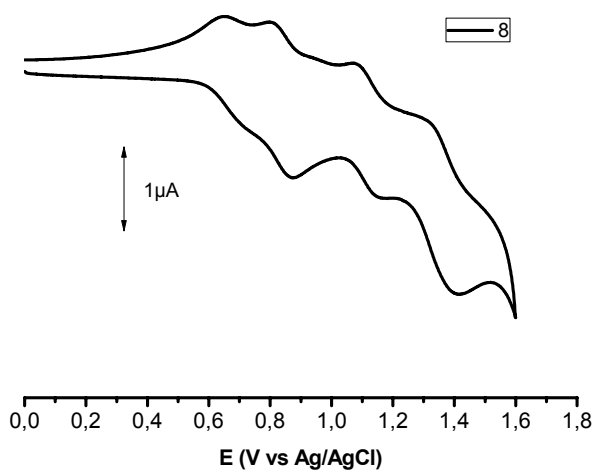


Figure S7. Cyclic voltammogram of **8**.

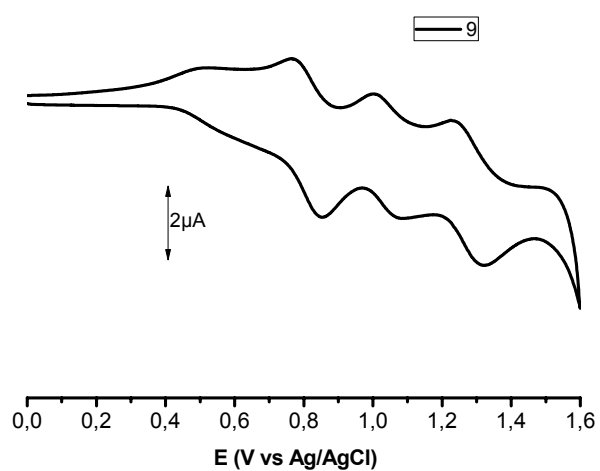


Figure S8. Cyclic voltammogram of **9**.

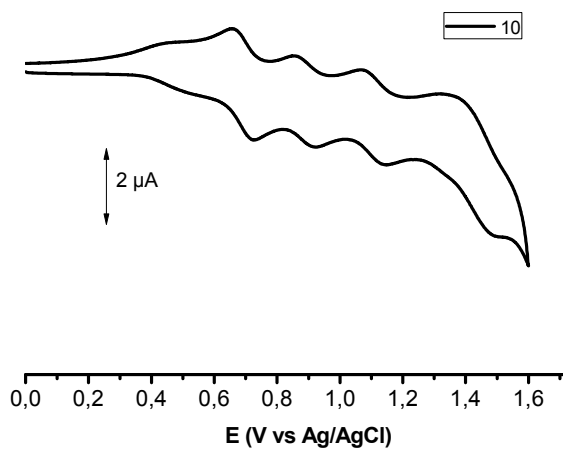


Figure S9. Cyclic voltammogram of 10.

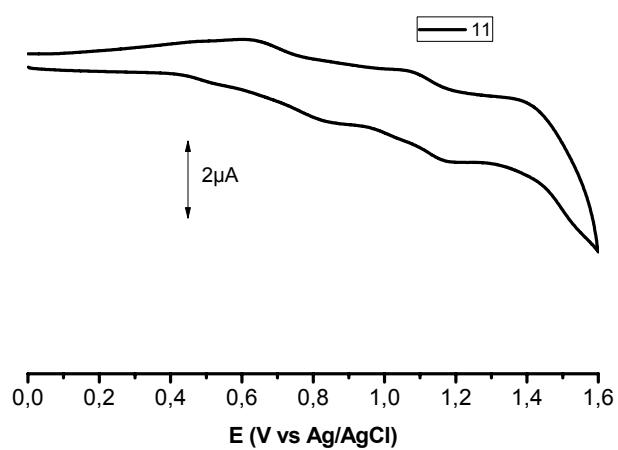


Figure S10. Cyclic voltammogram of 11.

2. UV-Vis absorption Measurements

Steady-state absorption was carried out on a spectrophotometer UV-2401PC, Shimadzu

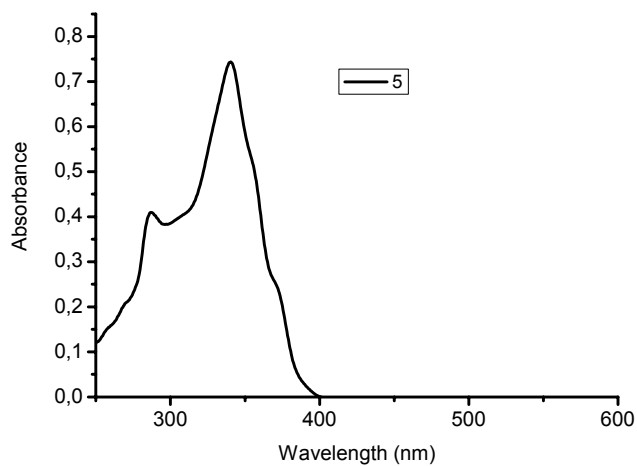


Figure S11. UV-visible of **5** in CH₂Cl₂

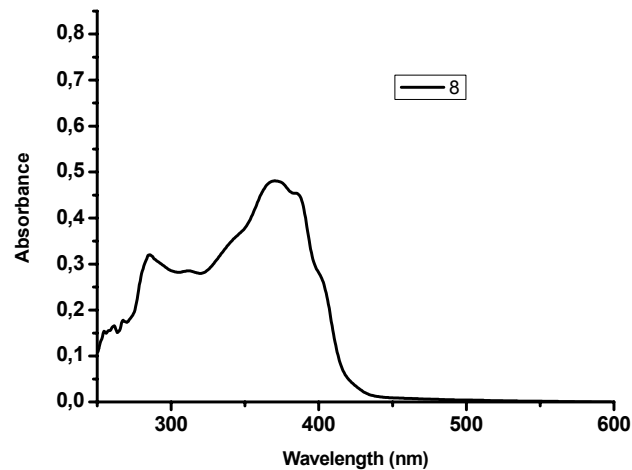


Figure S12. UV-visible of **8** in CH₂Cl₂

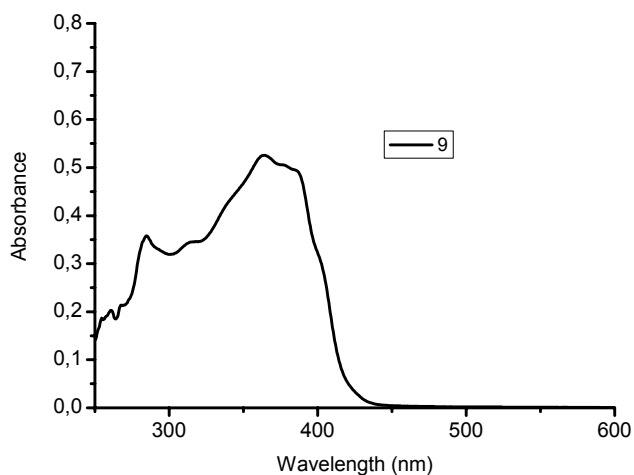


Figure S13. UV-visible of **9** in CH₂Cl₂

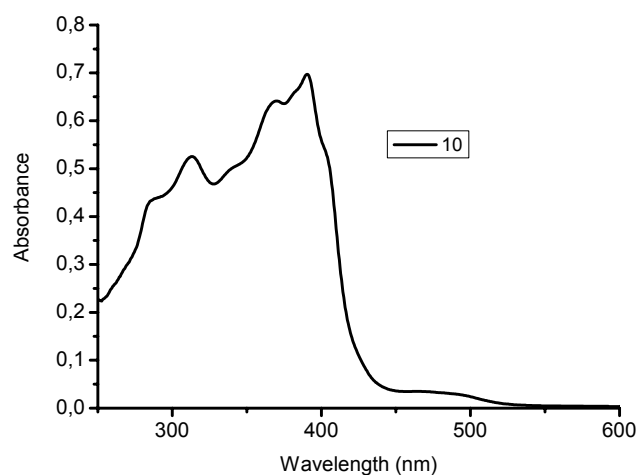


Figure S14. UV-visible of **10** in CH₂Cl₂

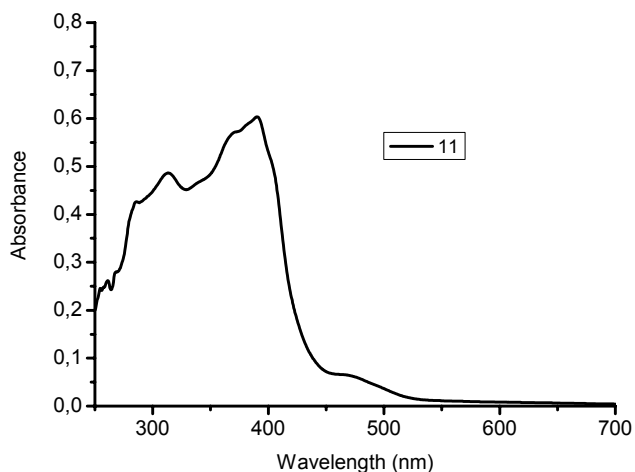


Figure S15. UV-visible of **11** in CH₂Cl₂

3. UV-Vis emission Measurements

Steady-state absorption was carried out on a spectrophotometer, Perkin-Elmer LS50B. Fluorescence spectra of Series I and II in CH₂Cl₂ and in mesophases.

3.1 Fluorescence Spectra of Series I

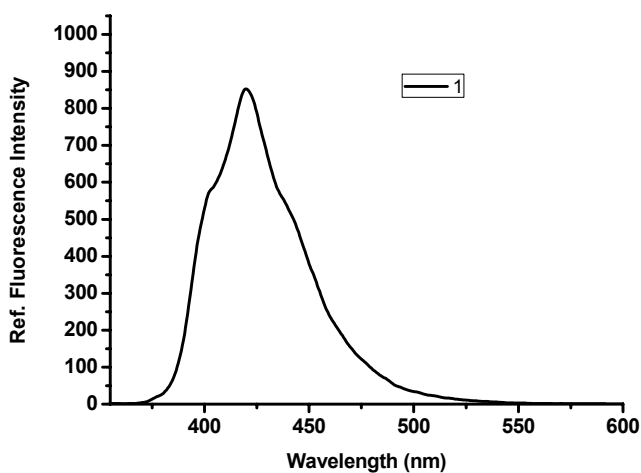


Figure S16. Normalized emission of **1**

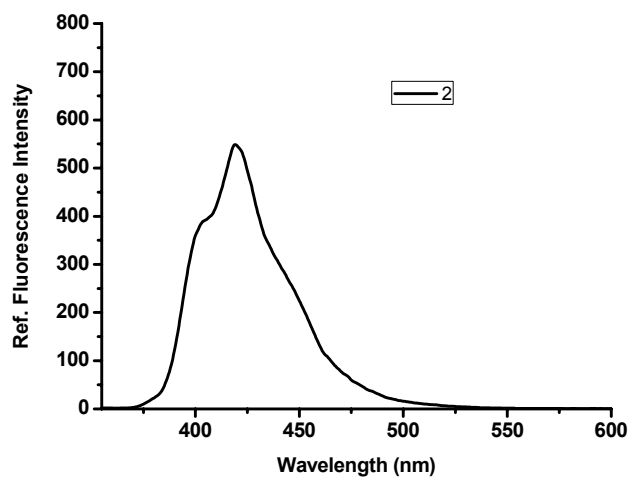


Figure S17. Normalized emission of **2**

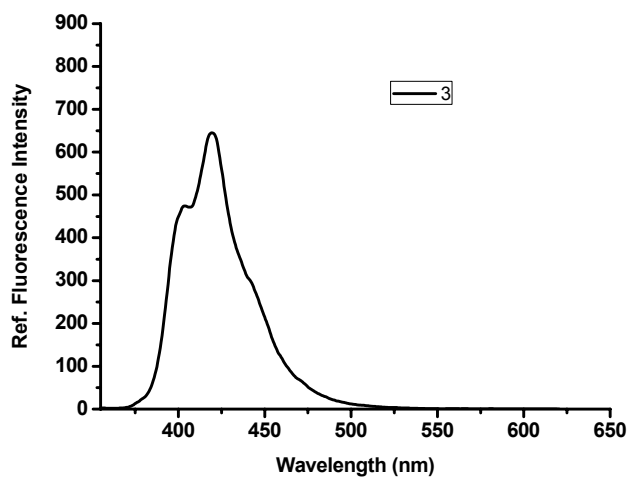


Figure S18. Normalized emission of 3

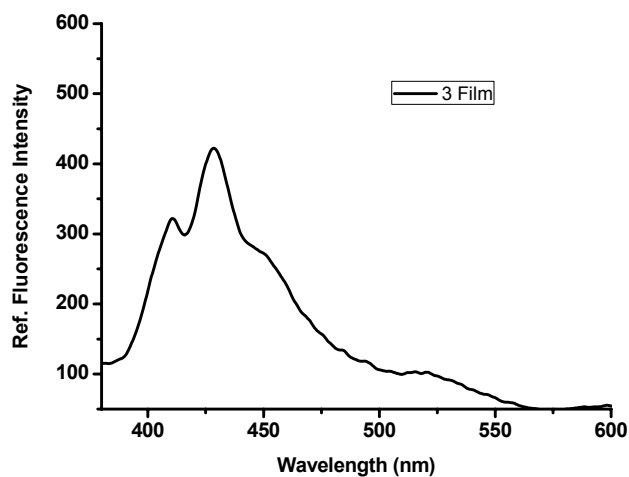


Figure S19. Normalized emission of 3 Film

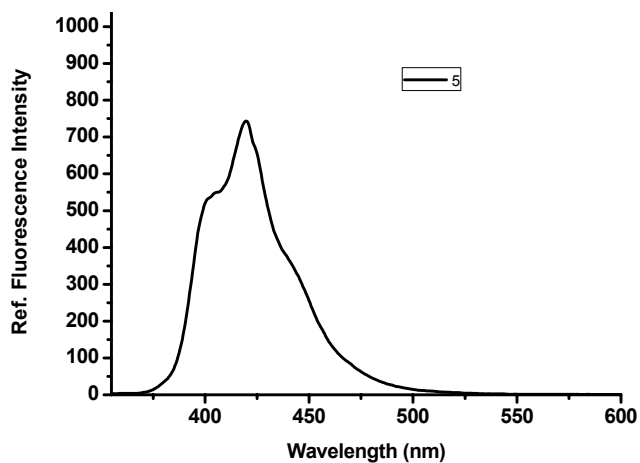


Figure S20. Normalized emission of 5

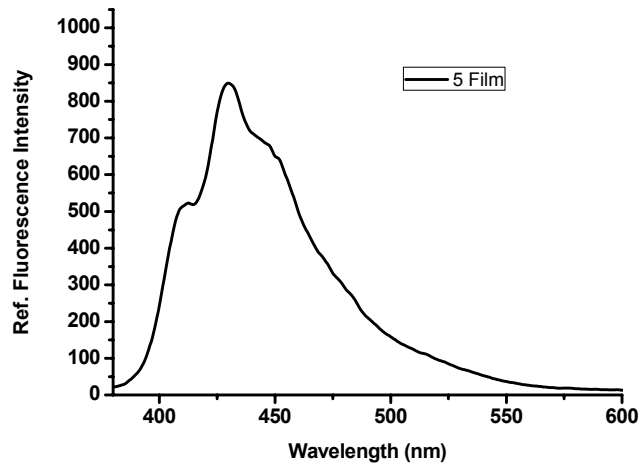


Figure S21. Normalized emission of 5 Film

3.2 Fluorescence Spectra of Series II

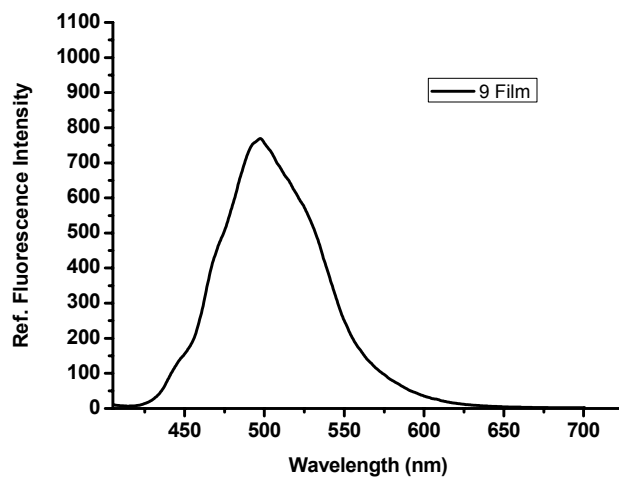
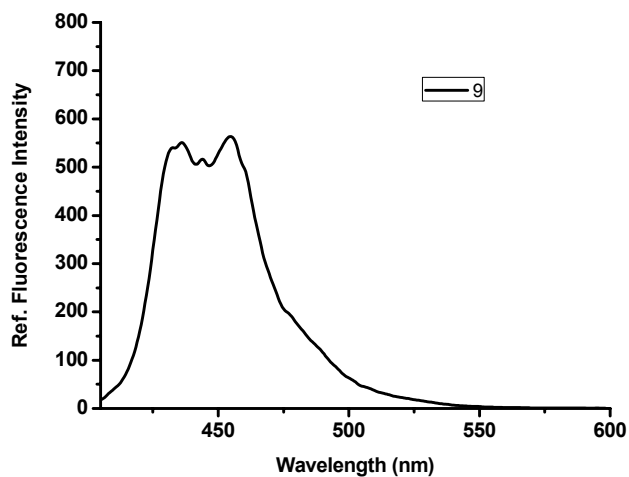


Figure S22. Normalized emission of **9**

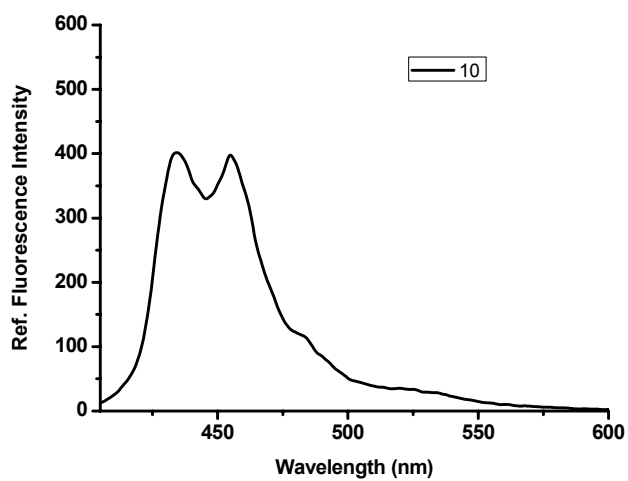


Figure S23. Normalized emission of **9 Film**

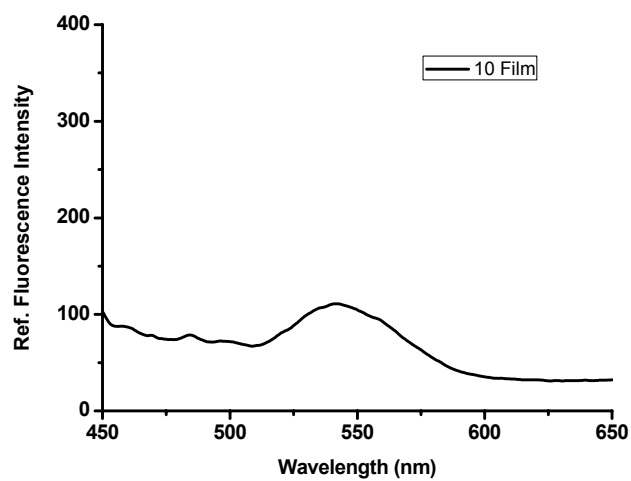


Figure S24. Normalized emission of **10**

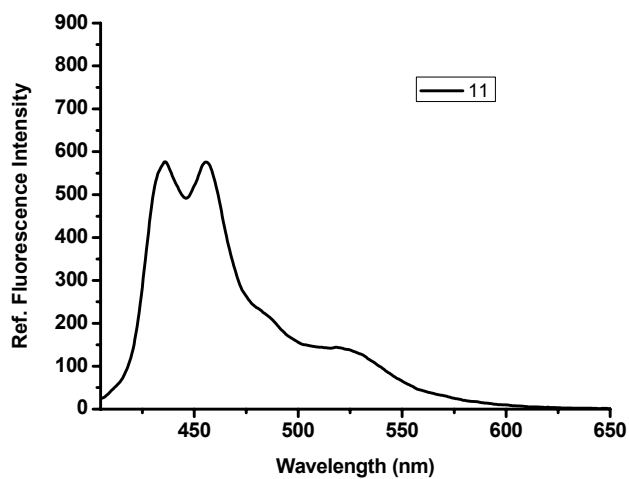


Figure S25. Normalized emission of **10 Film**

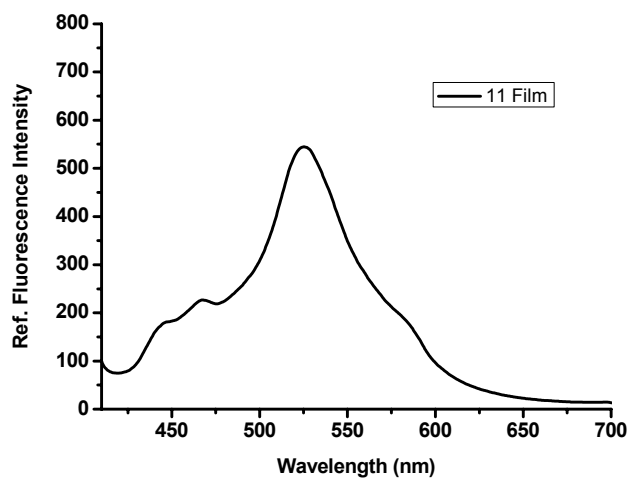


Figure S26. Normalized emission of **11**

Figure S27. Normalized emission of **11 Film**

4. ^1H NMR Experiments of **8** in CDCl_3 at variable concentration

^1H NMR experiments spectra were conducted on a Bruker AC-200 spectrometer operating at 200MHz

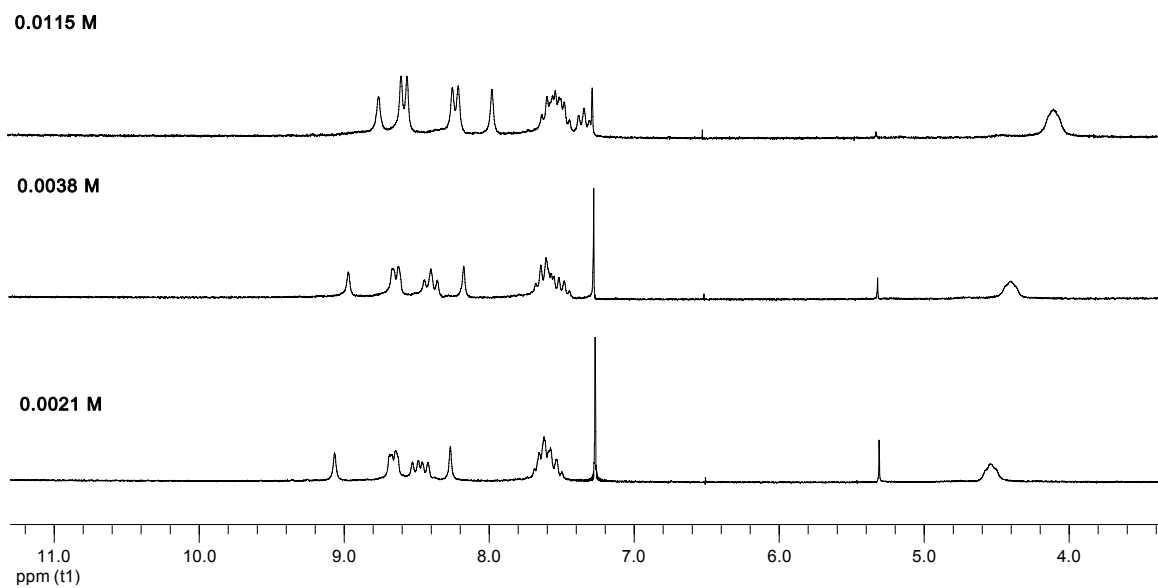


Figure S28. Concentration-dependent ^1H NMR spectra of **8** in CDCl_3 .

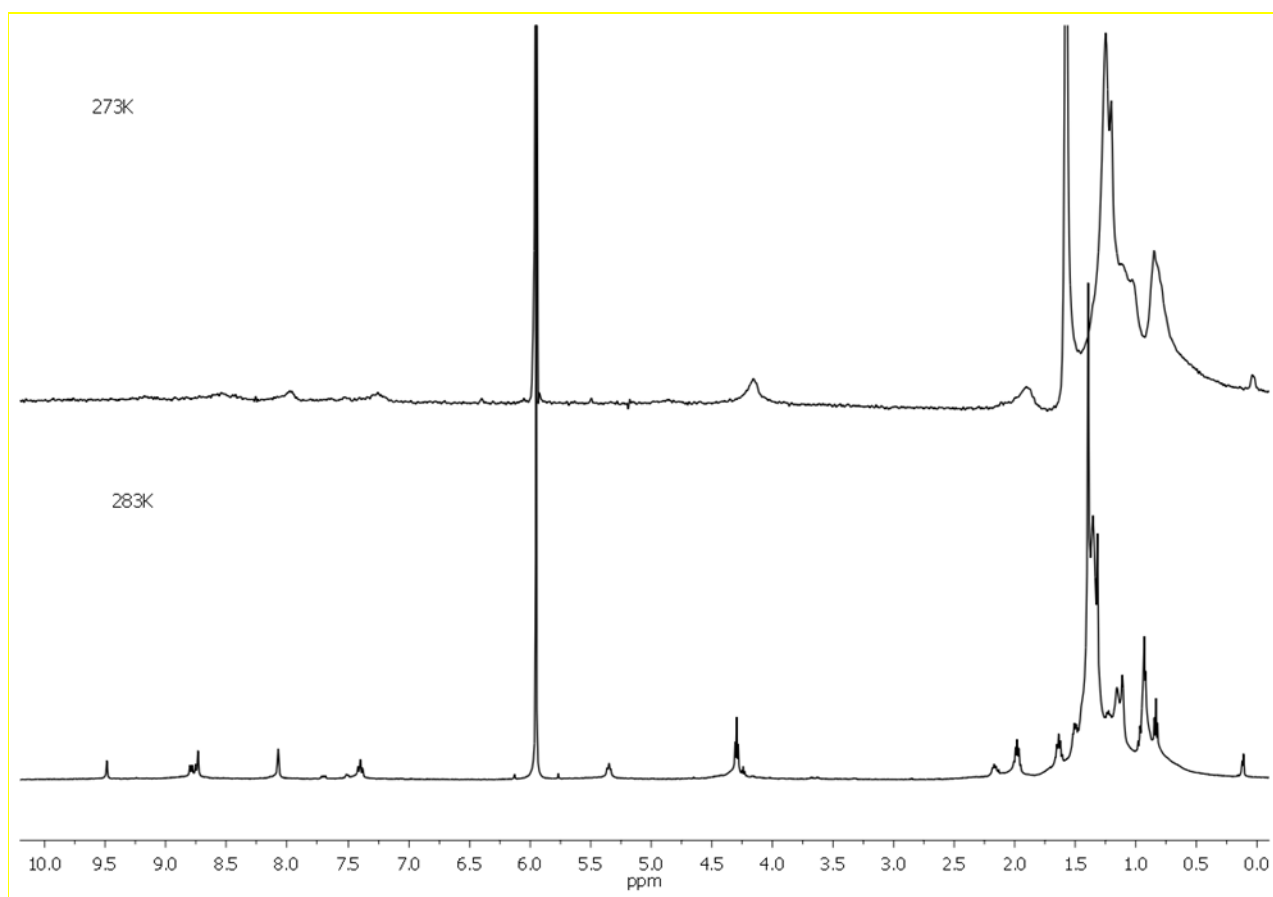


Figure S29. Temperature-dependent ¹H NMR spectra of **11** in $C_2D_2Cl_4$.