

Photophysical, Electrochemical, and Crystallographic Investigation of Conjugated Fluoreno Azomethines and Their Precursors

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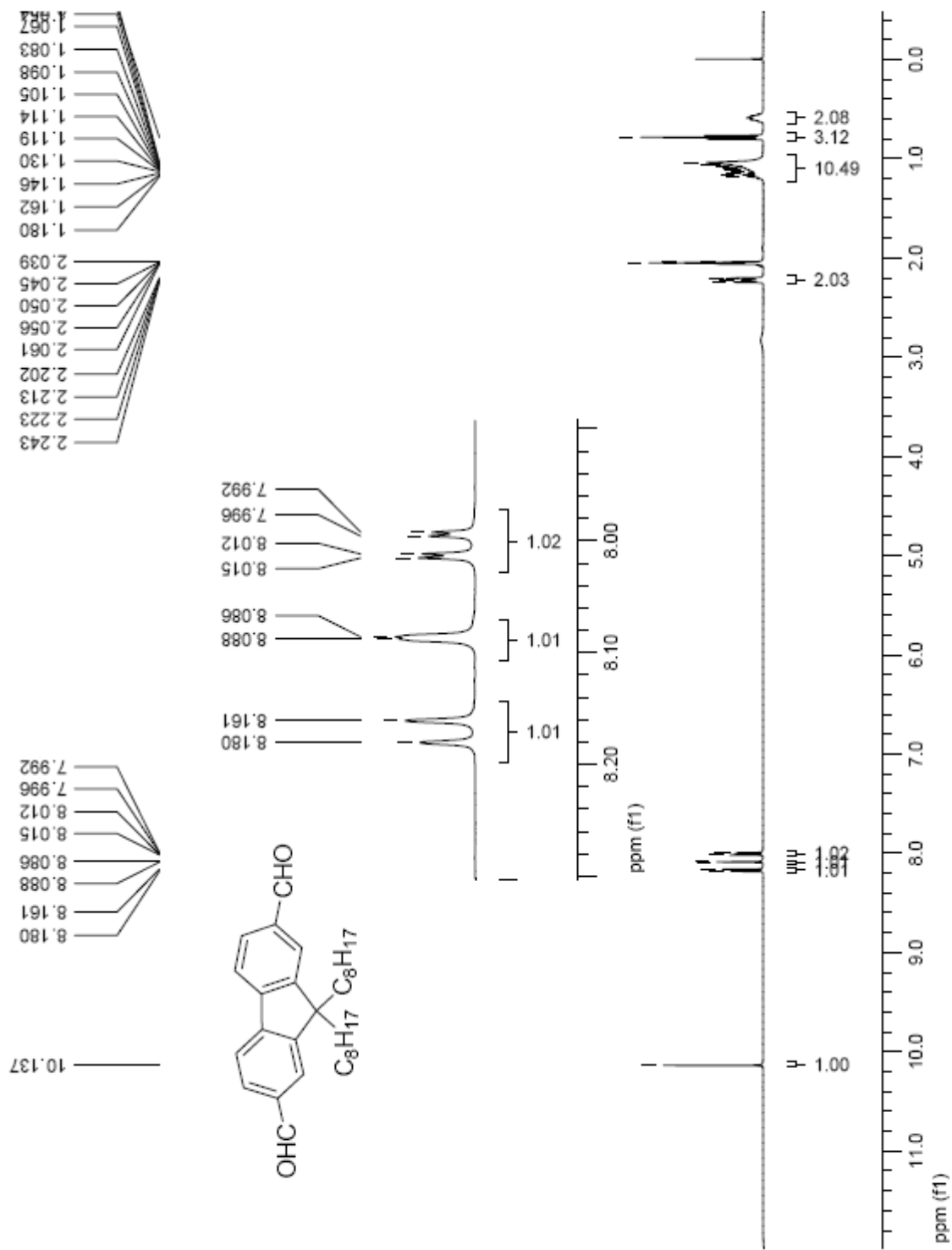
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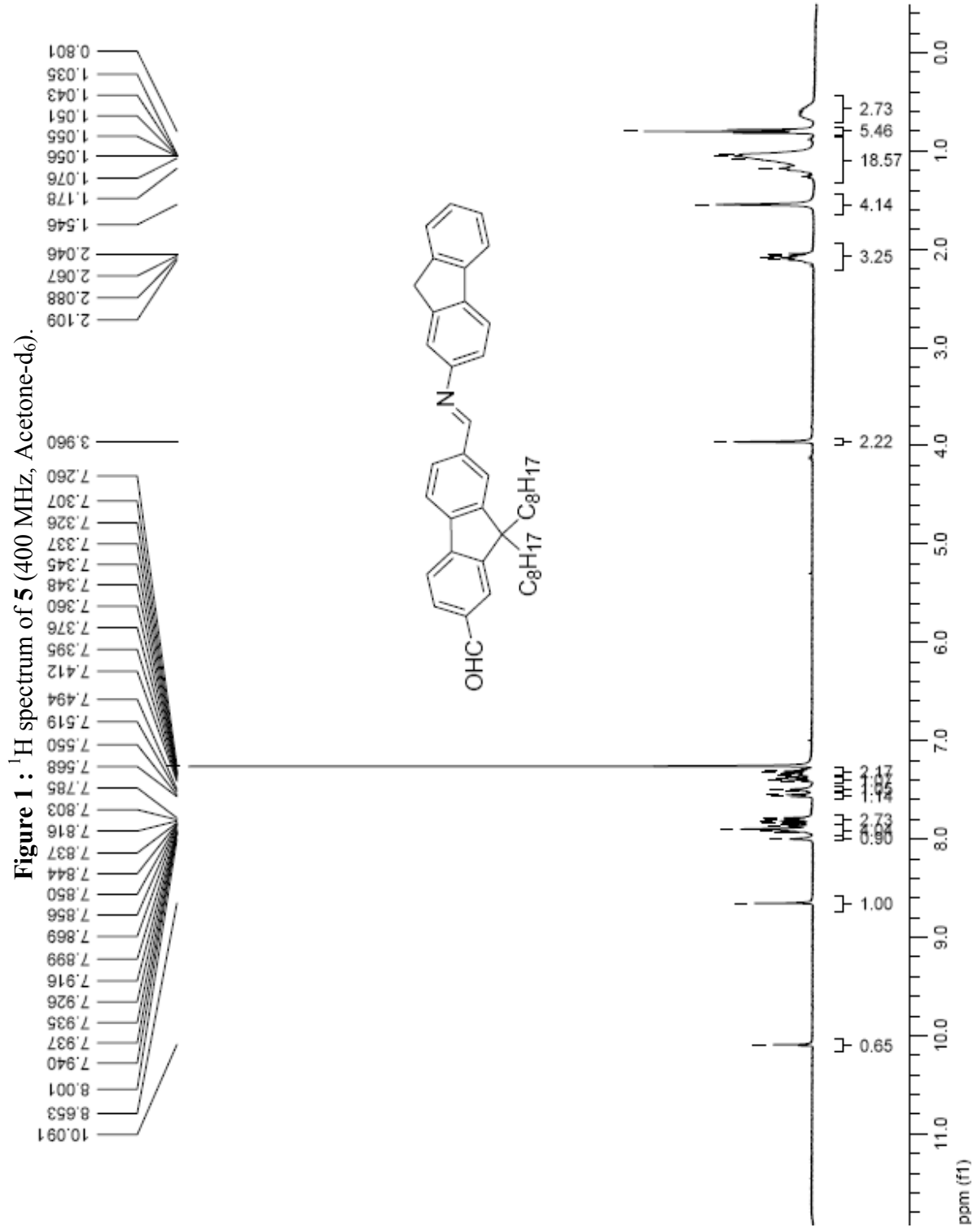


Figure 2 : ^1H spectrum of 7 (400 MHz, Chloroform-d).

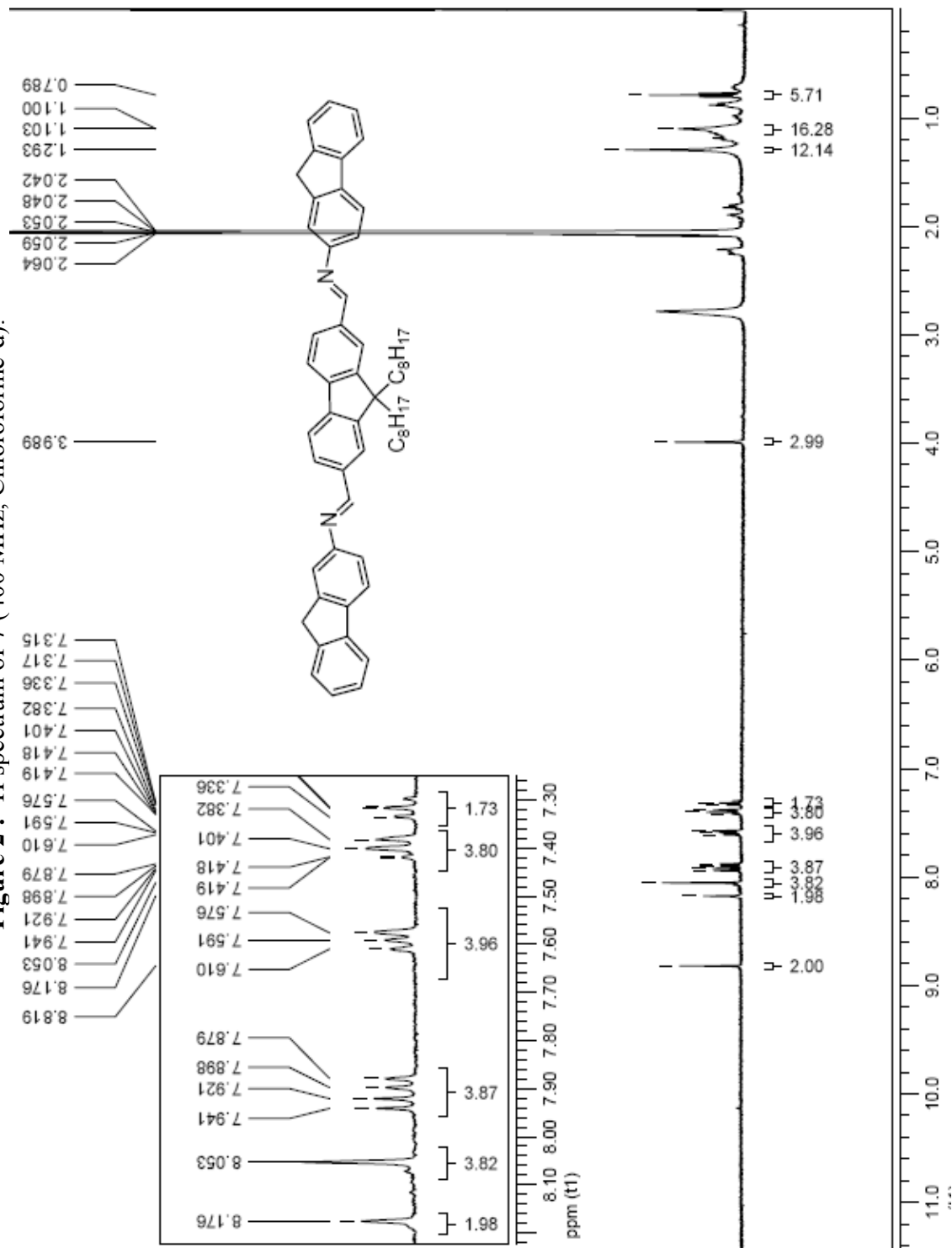


Figure 3 : ^1H spectrum of **8** (400 MHz, Acetone- d_6).

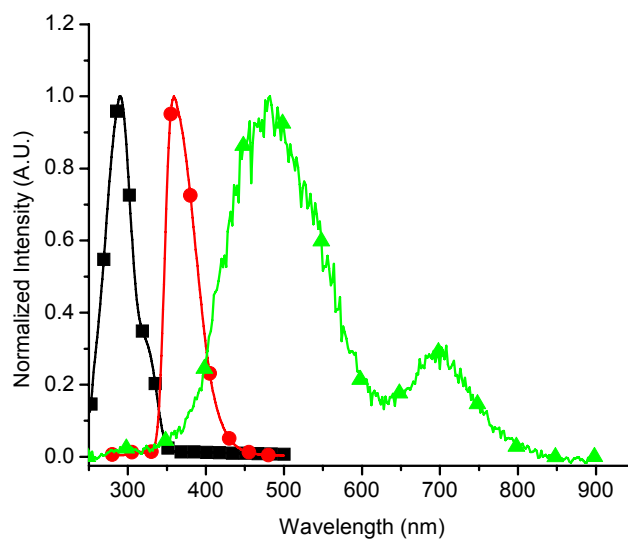


Figure 4: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of **2** $\lambda_{\text{ex}} = 290$ nm.

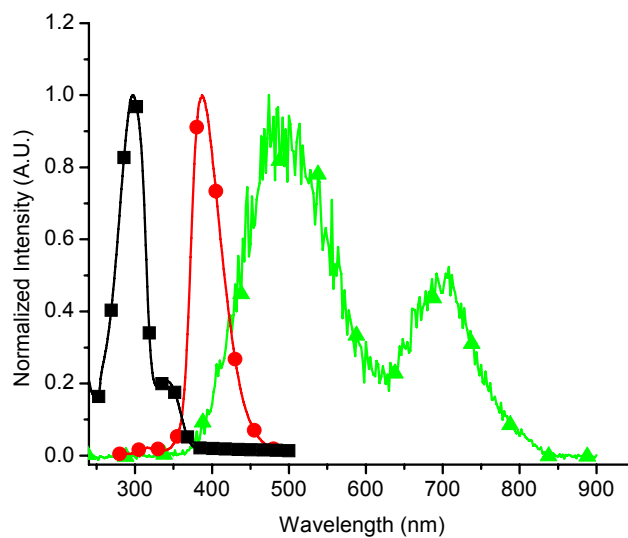


Figure 5: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of **3** $\lambda_{\text{ex}} = 292$ nm.

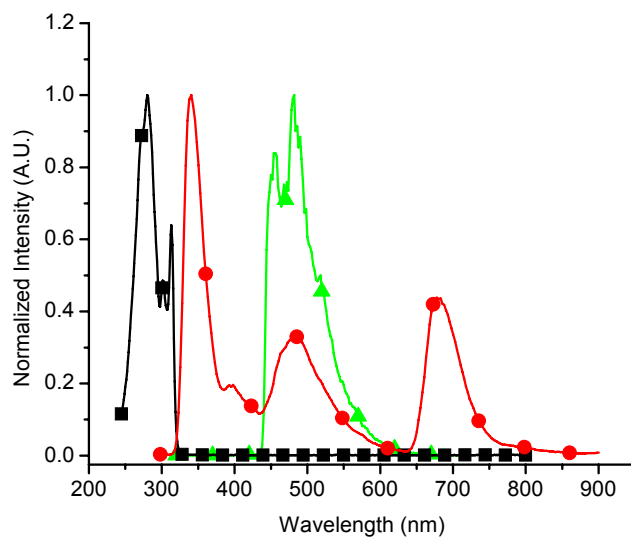


Figure 6: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of $\lambda_{\text{ex}} = 280$ nm.

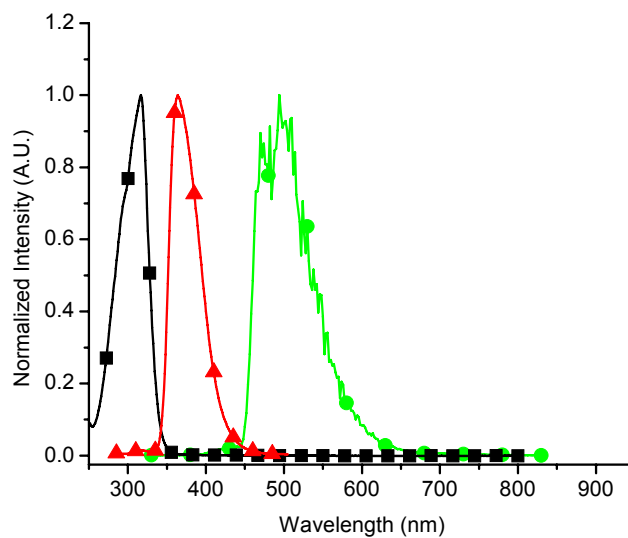


Figure 7: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of $\lambda_{\text{ex}} = 316$ nm.

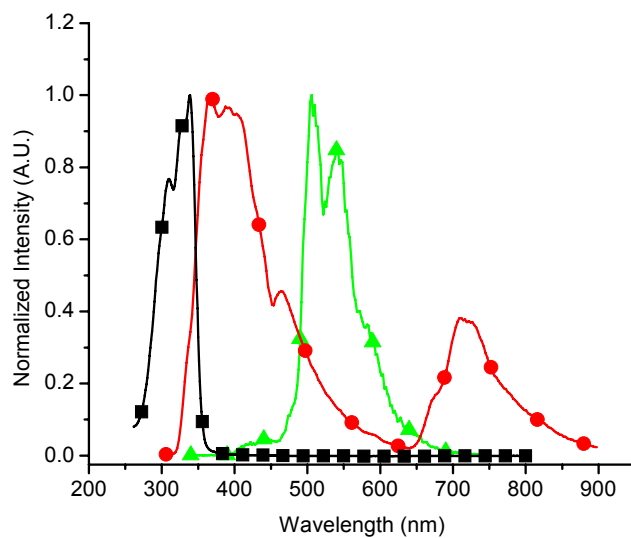


Figure 8: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of **6** $\lambda_{\text{ex}} = 339$ nm.

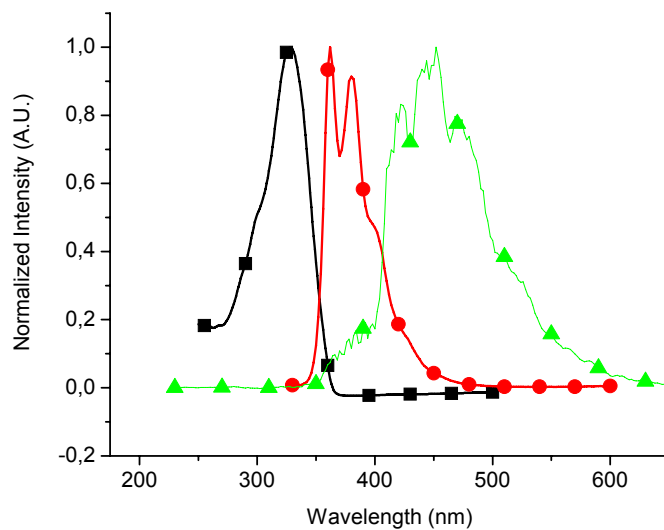


Figure 9: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of $\lambda_{\text{ex}} = 327$ nm.

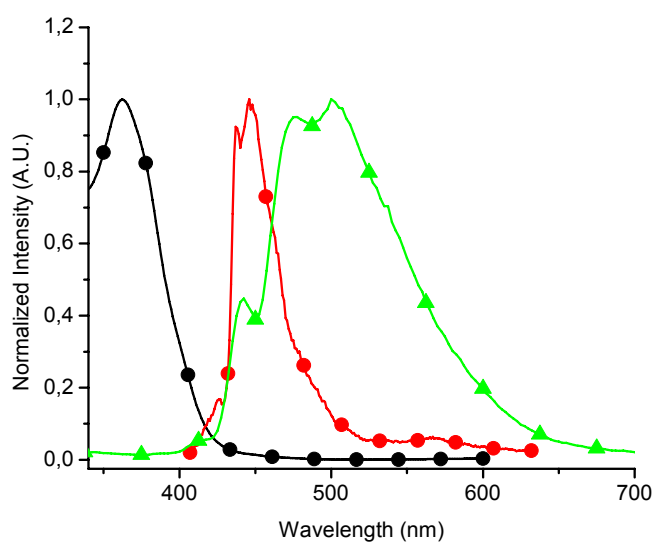


Figure 10: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane of **8** $\lambda_{\text{ex}} = 361$ nm.

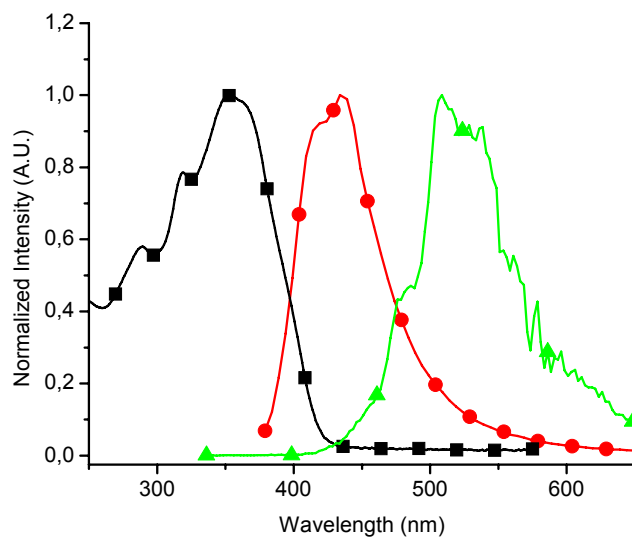


Figure 11: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of **9** $\lambda_{\text{ex}} = 355$ nm.

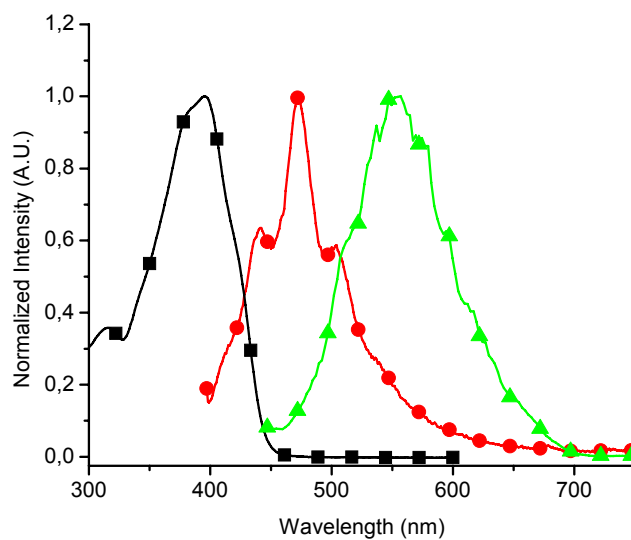


Figure 12: Normalized absorption (squares), fluorescence (circles), recorded in degassed dichloromethane, and phosphorescence (triangles) recorded at 77 K in a matrix of 4:1 ethanol / methanol of 10^{-5} $\lambda_{\text{ex}} = 386$ nm.

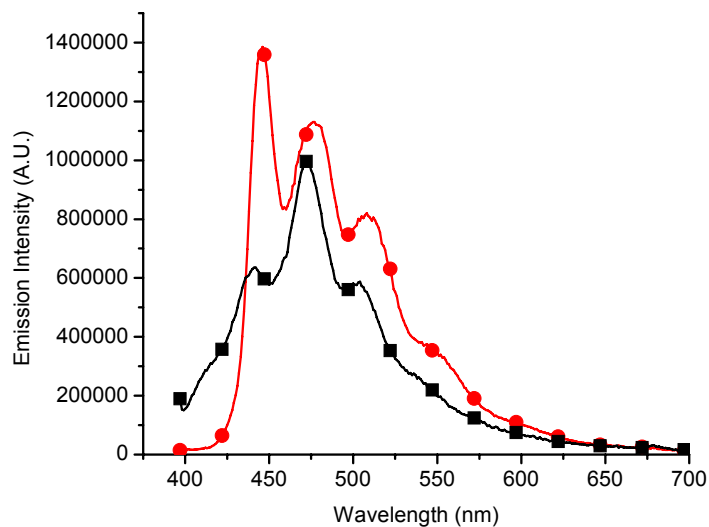


Figure 13: Fluorescence at 25 °C (squares) and at 77 K (circles) recorded in a degassed matrix of 4:1 ethanol / methanol of **10**, $\lambda_{\text{ex}} = 386$ nm.

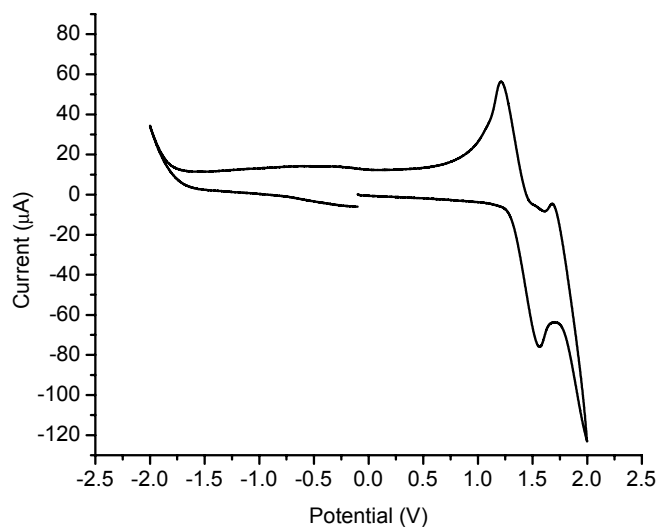


Figure 14: Uncorrected cyclic voltammogram of **7** recorded in deaerated dichloromethane solution of 0.1 M of TBAPF₆ using Ag/AgCl as reference and Pt as working electrodes.

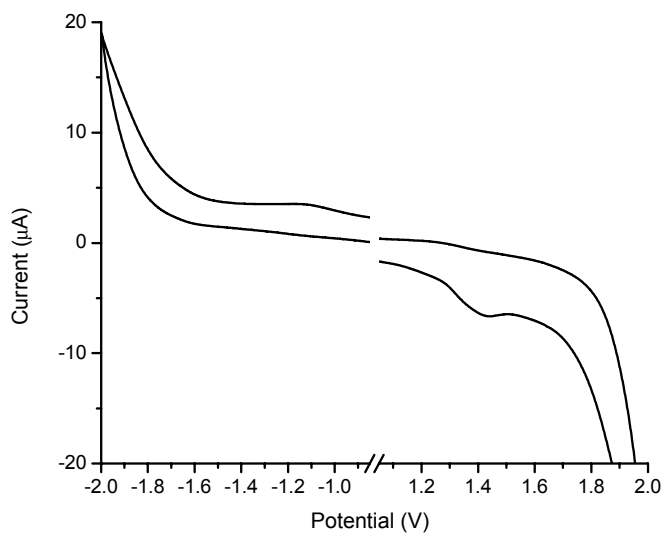


Figure 15: Uncorrected cyclic voltammogram of **10** recorded in deaerated dichloromethane solution of 0.1 M of TBAPF₆ using Ag/AgCl as reference and Pt as working electrodes.