

## Supplementary Material

# $\pi$ -Bridge Effect on Symmetric Carbazole-Based Small Molecules for Realizing Ultraviolet Emission

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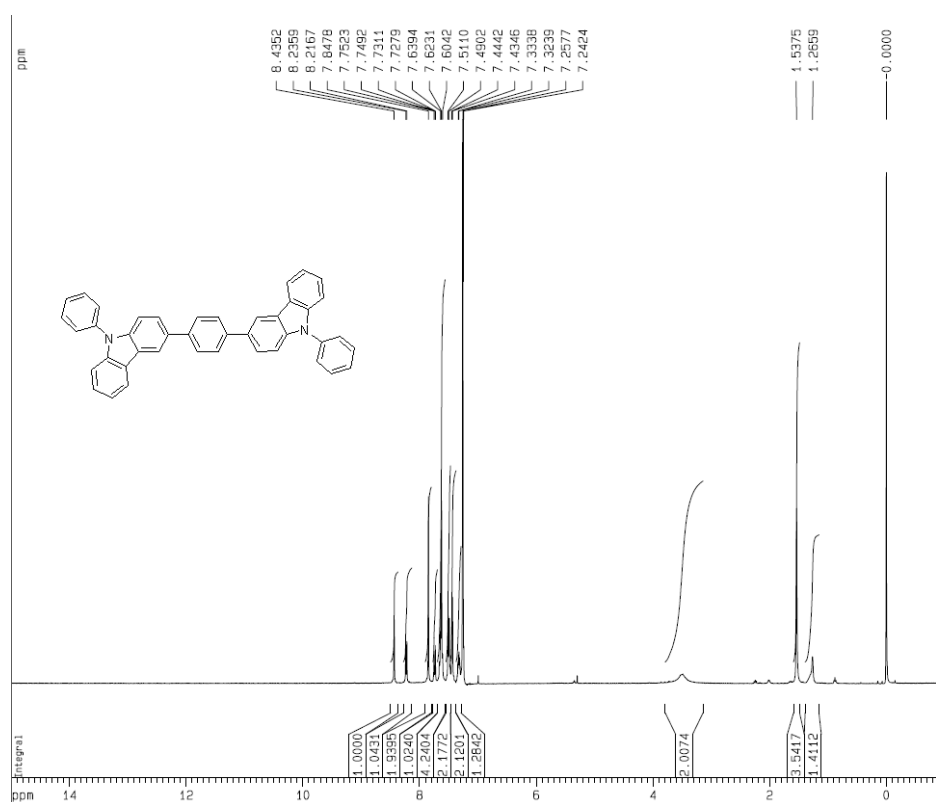


Figure S1. <sup>1</sup>H NMR spectrum of CzP-H.

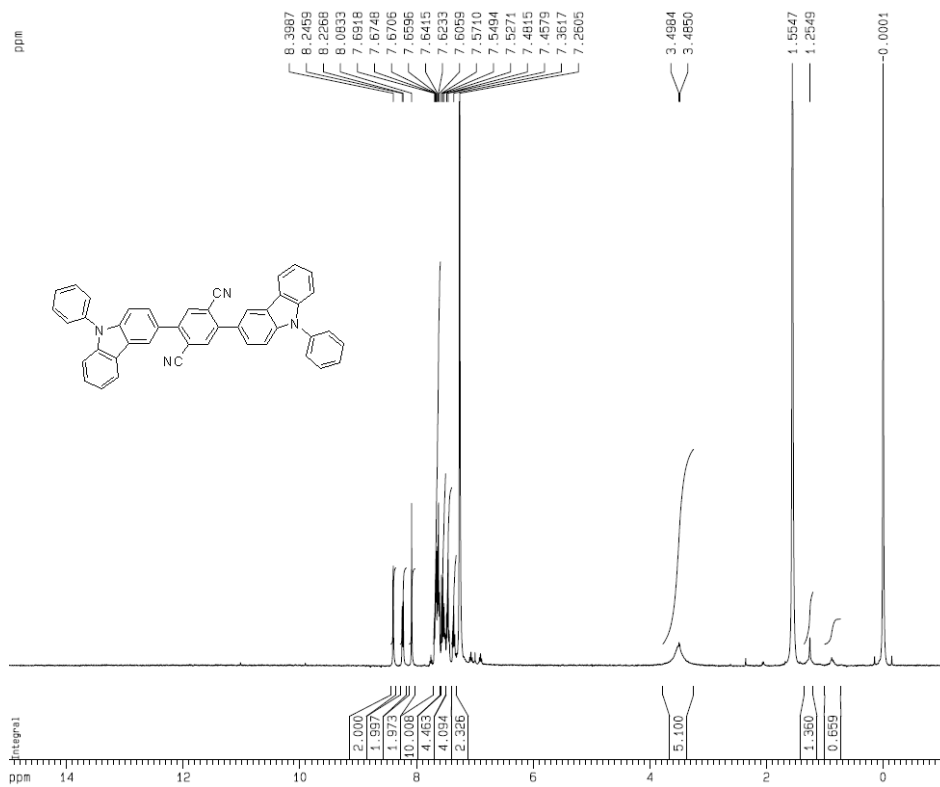


Figure S2. <sup>1</sup>H NMR spectrum of CzP-CN.

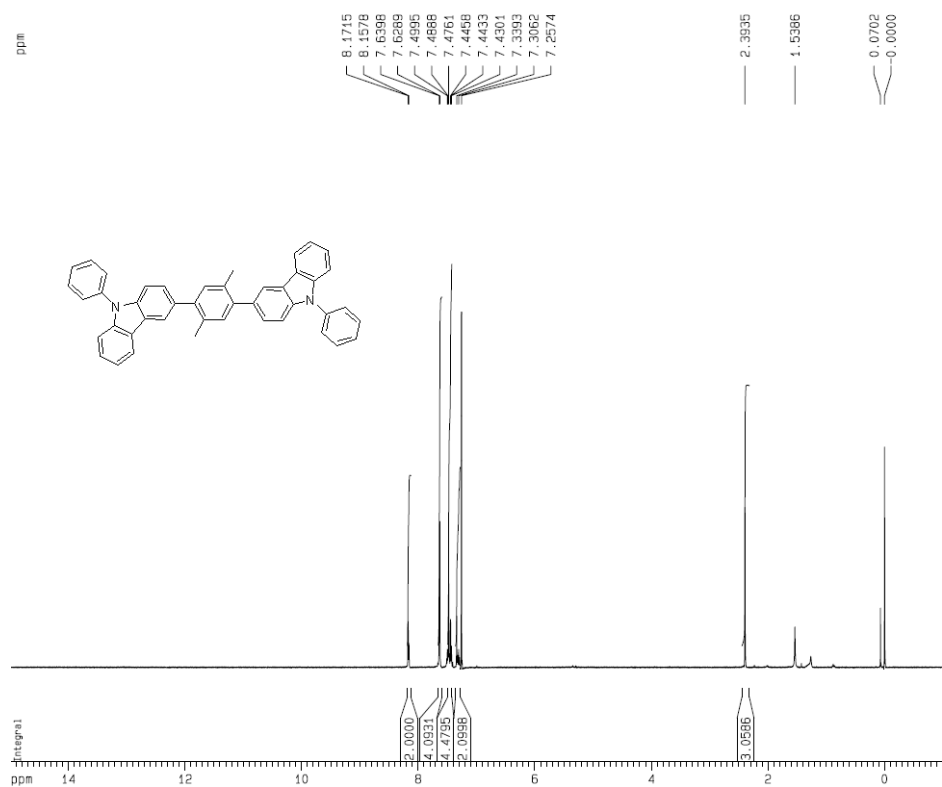


Figure S3. <sup>1</sup>H NMR spectrum of CzP-Me.

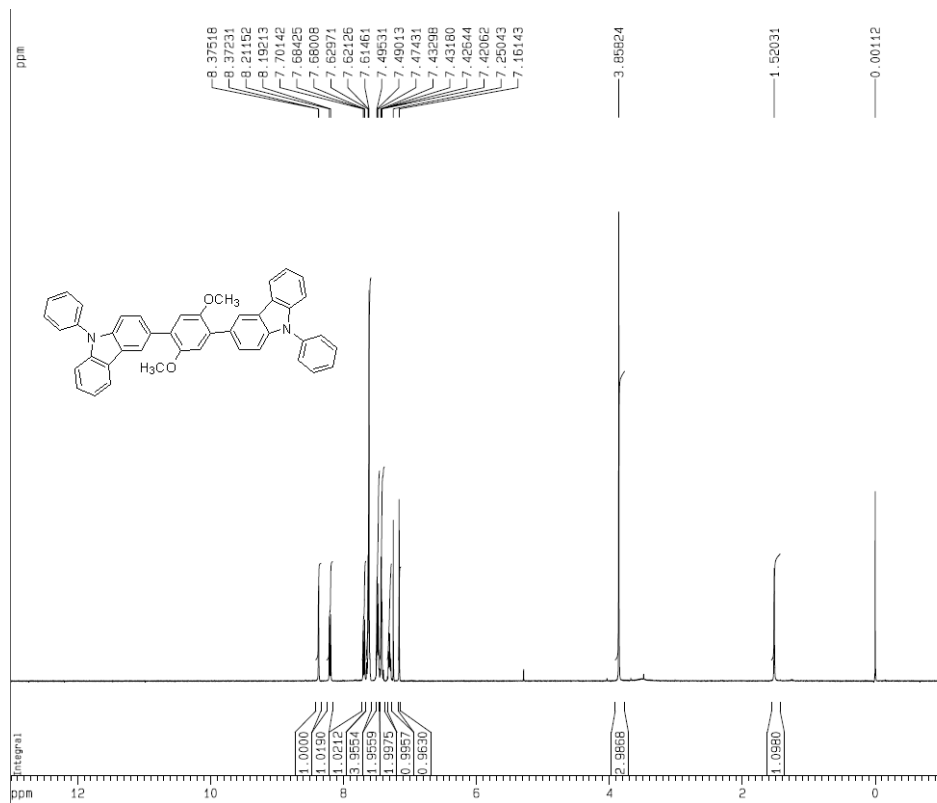


Figure S4.  $^1\text{H}$  NMR spectrum of CzP-OMe.

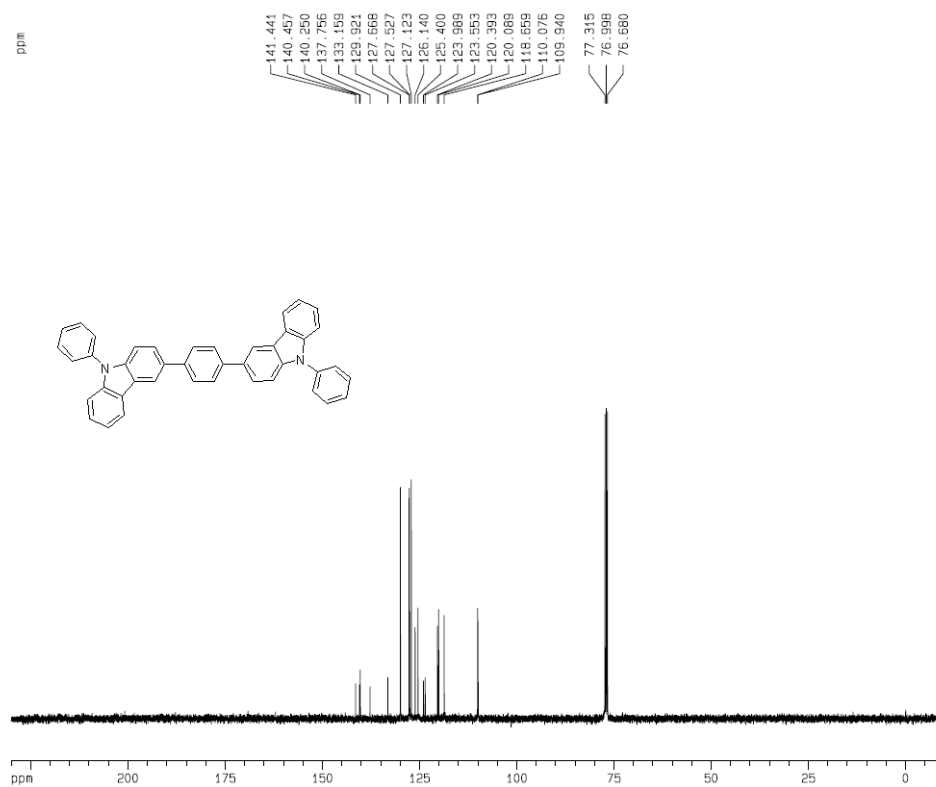


Figure S5.  $^{13}\text{C}$  NMR spectrum of CzP-H.

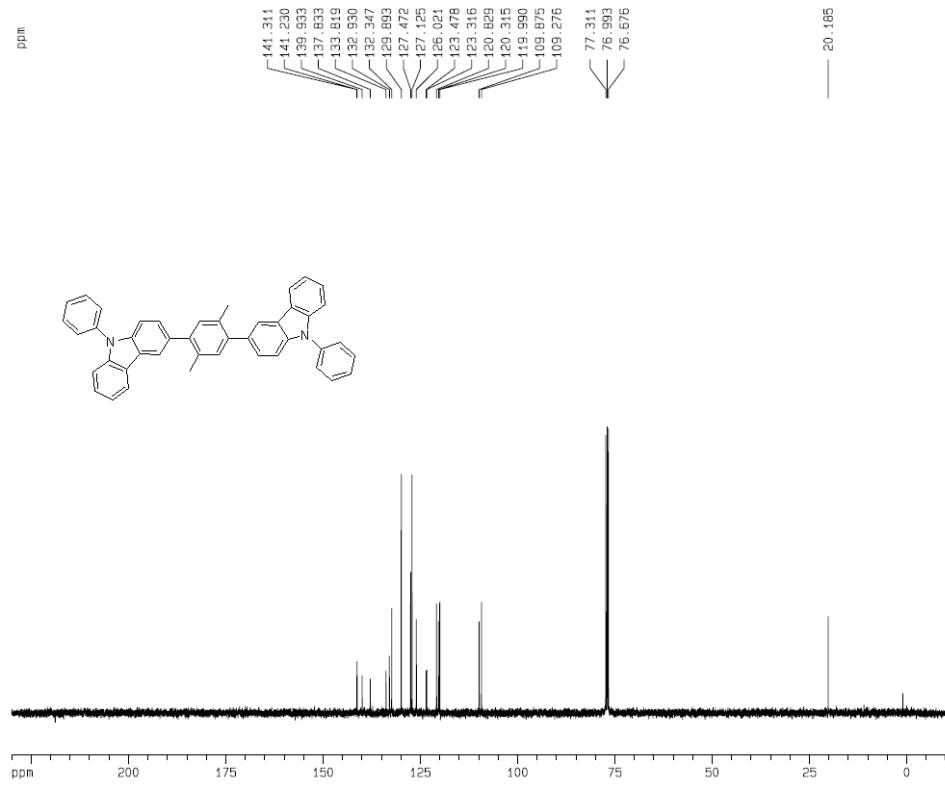


Figure S6. <sup>13</sup>C NMR spectrum of CzP-Me.

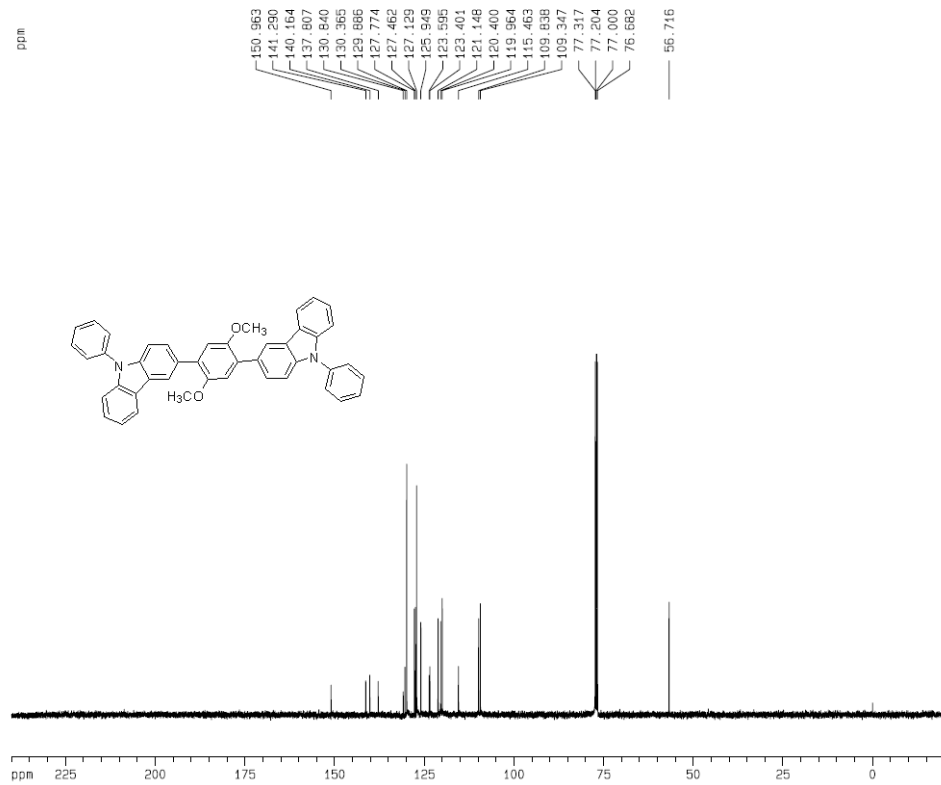
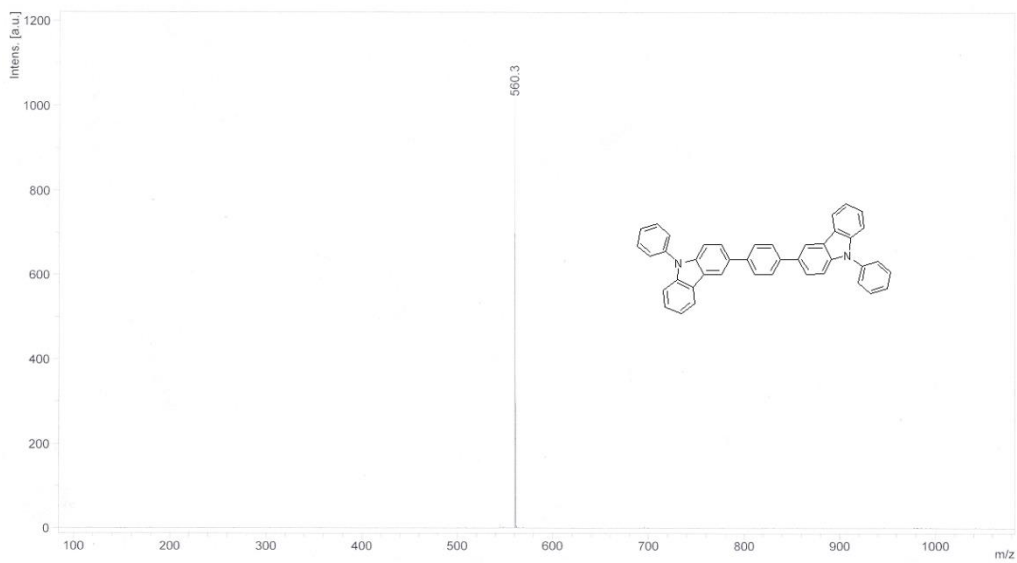


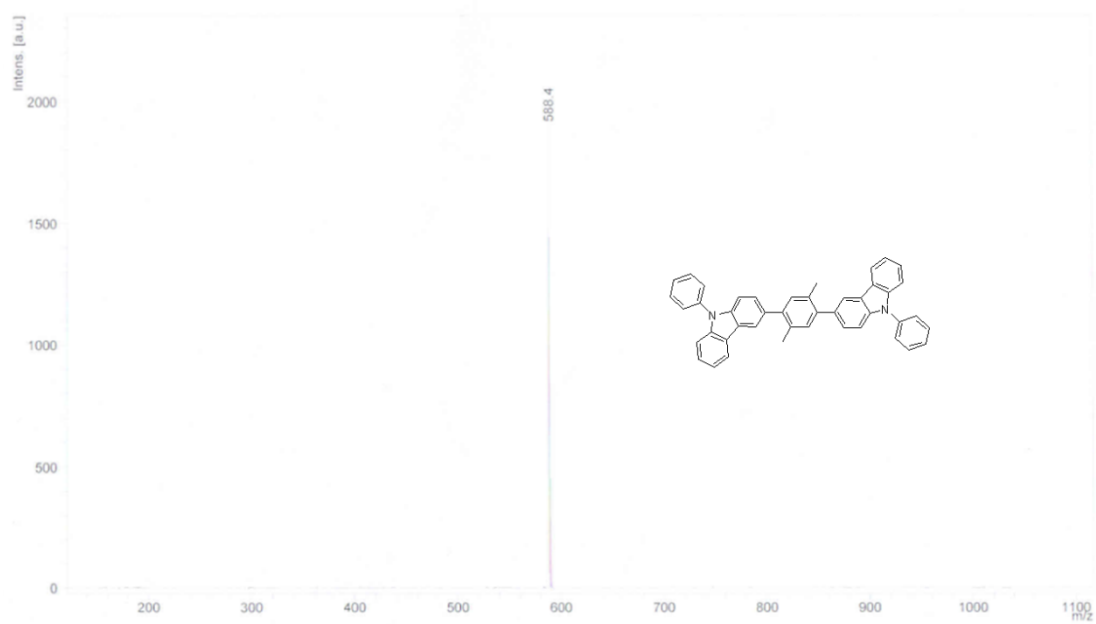
Figure S7. <sup>13</sup>C NMR spectrum of CzP-OMe.



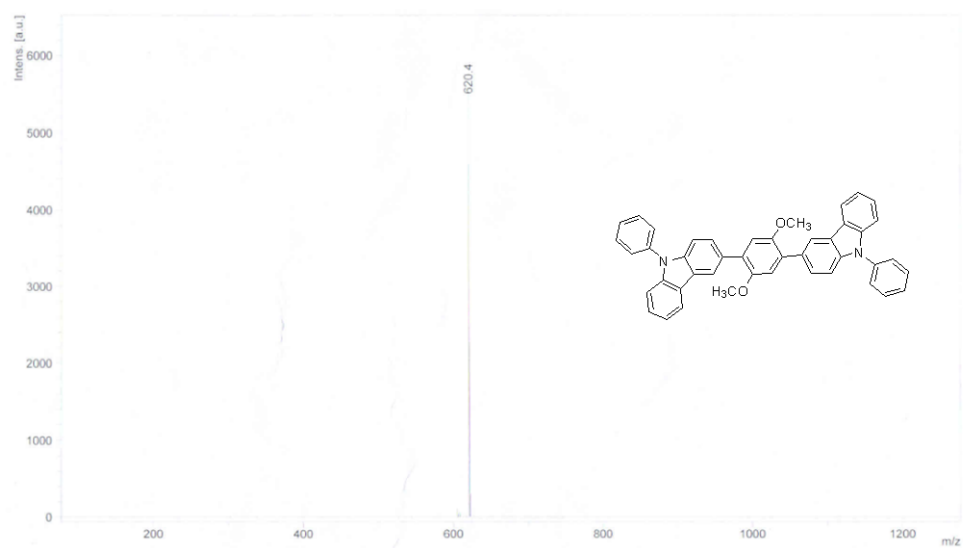
**Figure S8.** HR-MS spectrum of CzP-H.



**Figure S9.** HR-MS spectrum of CzP-CN.



**Figure S10.** HR-MS spectrum of CzP-Me.



**Figure S11.** HR-MS spectrum of CzP-OMe.

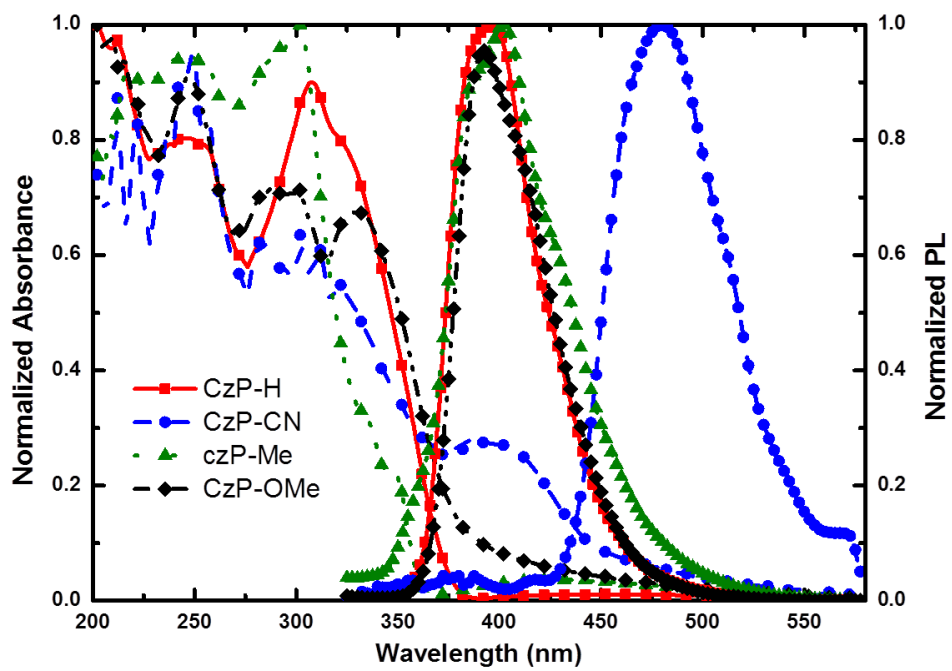


Figure S12. Normalized absorption spectra and normalized PL spectra.