Supplementary Information

Syntheses, Experimental and Theoretical Studies on Absorption/Emission Properties of Pyrazoline-Containing Aryl/Methoxynaphthyl Substituents

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Figure S1. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound 3a.

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Figure S2. 13 C NMR spectrum (100 MHz, DMSO- d_6) of compound 3a.



Figure S3. Mass spectrum of compound 3a.



Figure S4. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **3b**.



Figure S5. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound 3b.



Figure S6. Mass spectrum of compound 3b.



Figure S7. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **3c**.



Figure S8. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound **3c**.



Figure S9. Mass spectrum of compound 3c.



Figure S10. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **3d**.



Figure S11. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound **3d**.



Figure S12. Mass spectrum of compound 3d.



Figure S13. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **3e**.



Figure S14. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 3e.



Figure S15. Mass spectrum of compound 3e.



Figure S16. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound 3f.



Figure S17. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 3f.



Figure S18. Mass spectrum of compound 3f.



Figure S19. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **3g**.



Figure S20. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound **3g**.



Figure S21. Mass spectrum of compound 3g.



Figure S22. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound **4a**.



Figure S23. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 4a.



Figure S24. Mass spectrum of compound 4a.



Figure S25. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound **4b**.



Figure S26. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 4b.



Figure S27. Mass spectrum of compound 4b.



Figure S28. ¹H NMR spectrum (400 MHz, DMSO- d_6) of compound **4c**.



Figure S29. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound 4c.



Figure S30. Mass spectrum of compound 4c.



Figure S31. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound **4d**.



Figure S32. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 4d.



Figure S33. Mass spectrum of compound 4d.



Figure S34. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound **4e**.



Figure S35. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 4e.



Figure S36. Mass spectrum of compound 4e.



Figure S37. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound 4f.



Figure S38. ¹³C NMR spectrum (100 MHz, DMSO- d_6) of compound 4f.



Figure S39. Mass spectrum of compound 4f.



Figure S40. ¹H NMR spectrum (400 MHz, DMSO-*d*₆) of compound 4g.



Figure S41. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound 4g.



Figure S42. Mass spectrum of compound 4g.