

Supplementary Material

Aptamer-based biosensing with a cationic AIEgen

Tracey Luu,^{1,†} Mengjie Liu,^{1,†} Yilong Chen,² Roozbeh Hushiarian,¹ Anthony Cass,³ Ben Zhong Tang² and Yuning Hong^{1,*}

¹ Department of Chemistry and Physics, La Trobe Institute for Molecular Science, La Trobe University, Melbourne, VIC 3086 Australia

² Department of Chemistry, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong, China

³ Department of Chemistry, Molecular Sciences Research Hub, Imperial College London, White City Campus, London 212 0BZ, United Kingdom

† Equal contribution

* Correspondence: Y.Hong@latrobe.edu.au

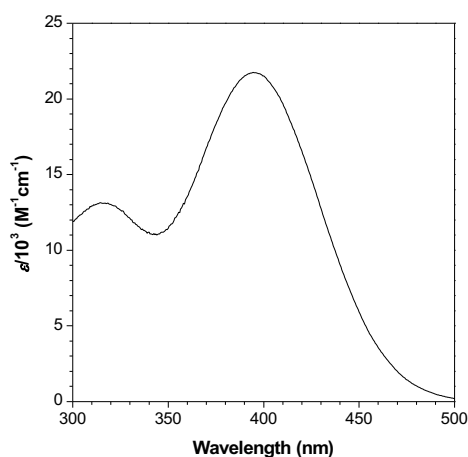


Figure S1. UV-vis spectrum of TPE-2+ in water (4 μM).

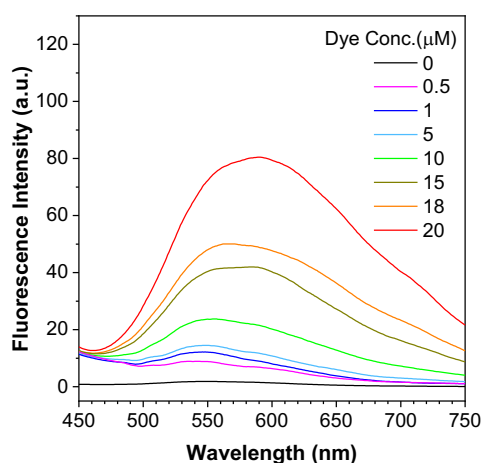


Figure S2. Emission spectra of TPE-2+ at different concentrations in aqueous solution. Excitation wavelength = 400 nm.

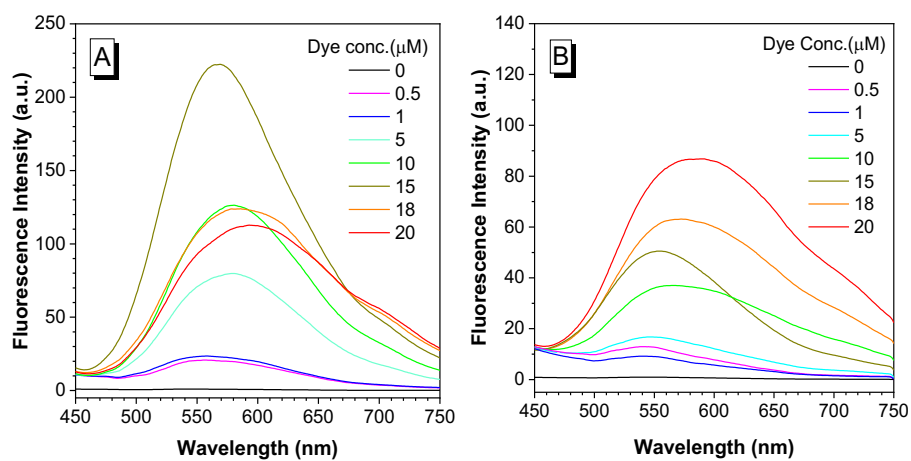


Figure S3. Emission spectra of dye-aptamer complex before background subtraction. (A) Dye with AL40 and (B) dye with ATh. Aptamer concentration = 1 μM ; excitation wavelength = 400 nm.

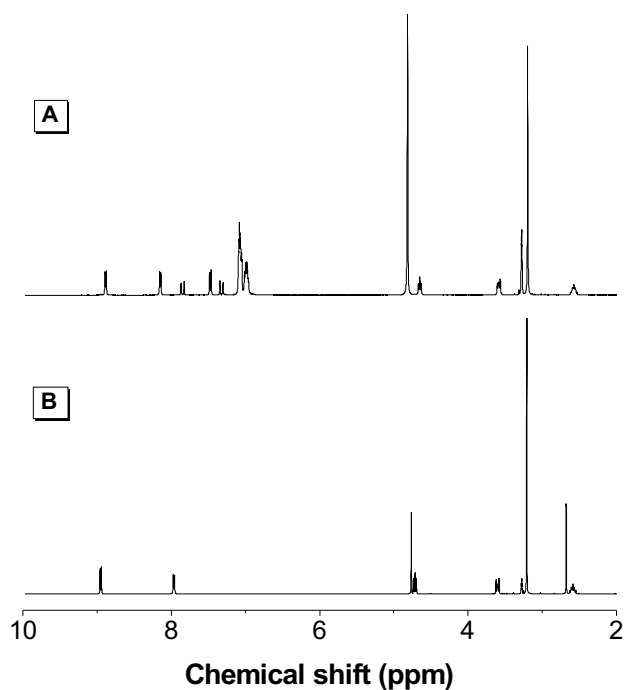


Figure S4. ¹H NMR spectra of (A) TPE-2+ and (B) **1** in methanol-*d*₄.

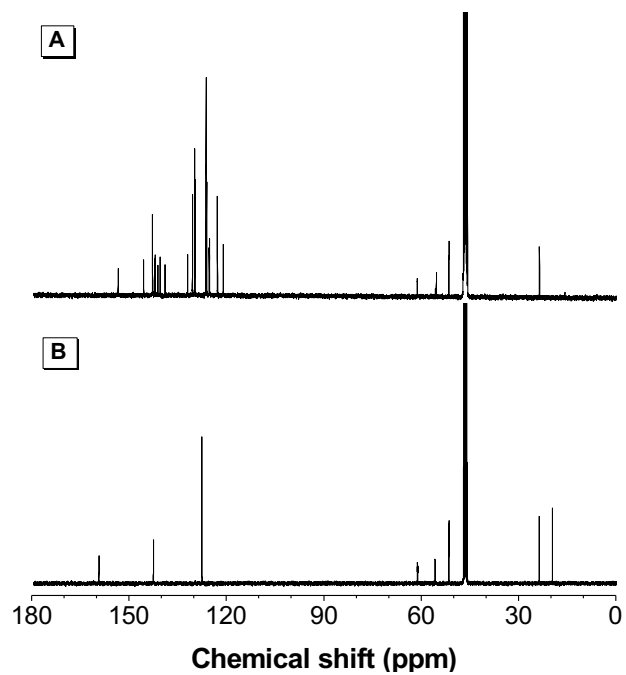


Figure S5. ^{13}C NMR spectra of (A) TPE-2+ and (B) **1** in methanol- d_4 .