Supplementary Material (ESI) for New Journal of Chemistry

Supporting Information

Highly Selective Ratiometric Fluorescent Chemosensor for Ag^+ Based on Rhodanineacetic Acid-Pyrene Derivative

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1. ^{1}H NMR & ^{13}C NMR spectrum of RAAP

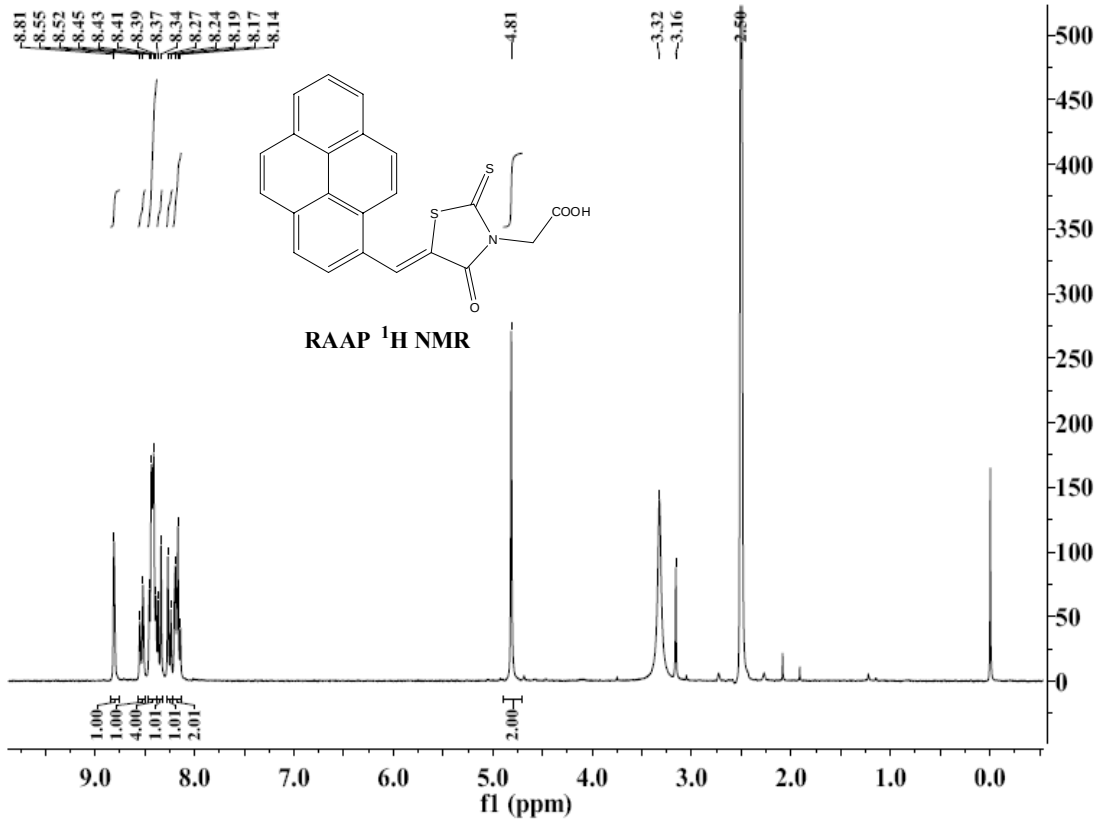

Fig. S1: ^{1}H NMR spectrum of RAAP

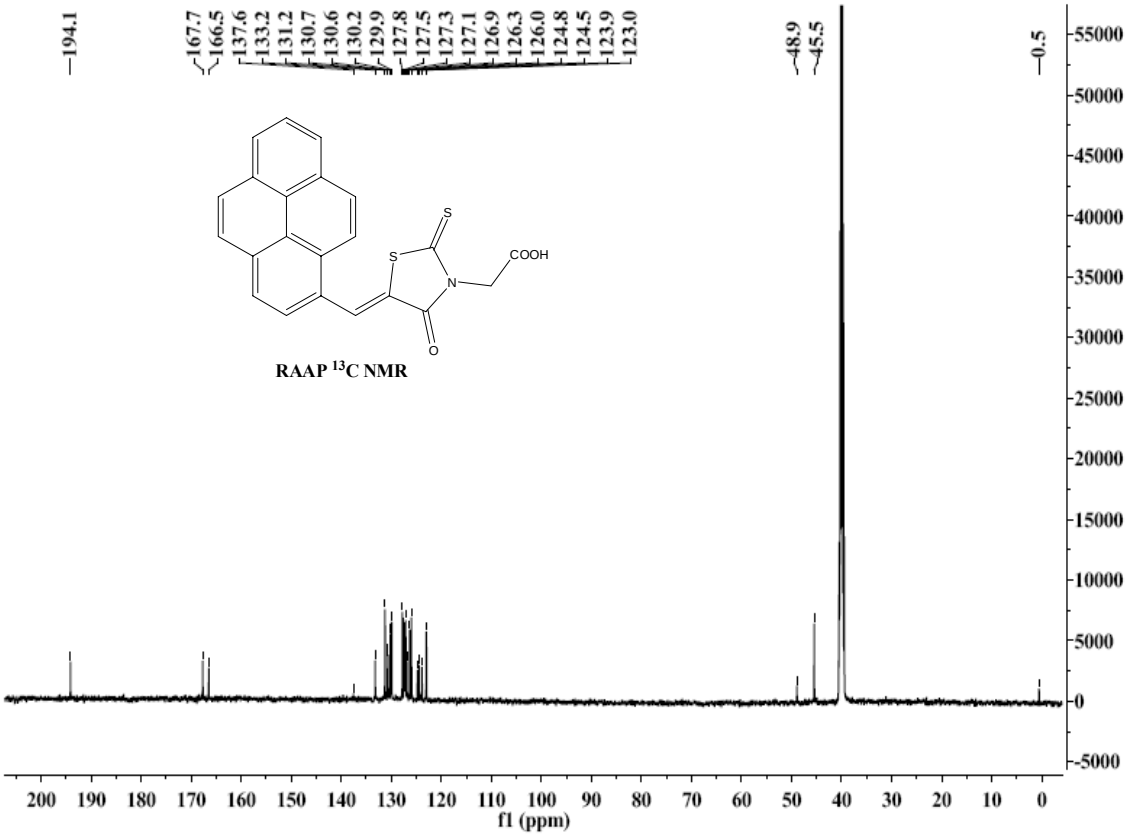

Fig. S2: ^{13}C NMR spectrum of RAAP

2. IR spectrum of RAAP

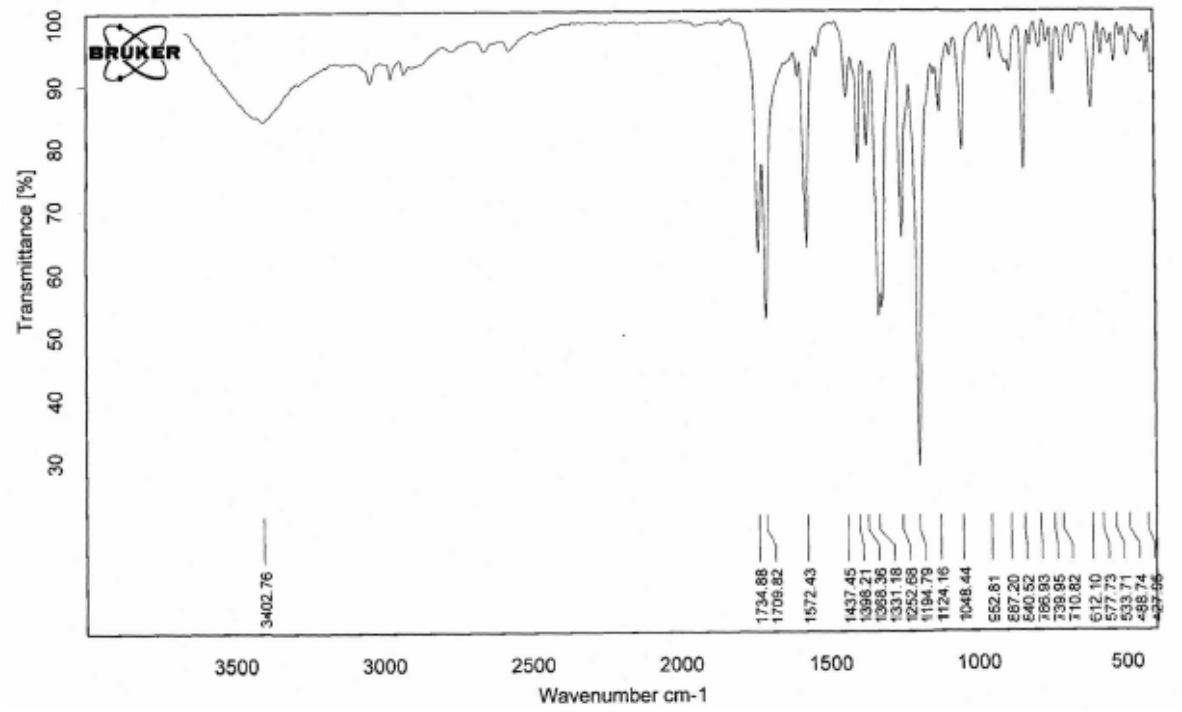

Fig. S3: IR spectrum of RAAP

3. ESI-MS spectrum of RAAP

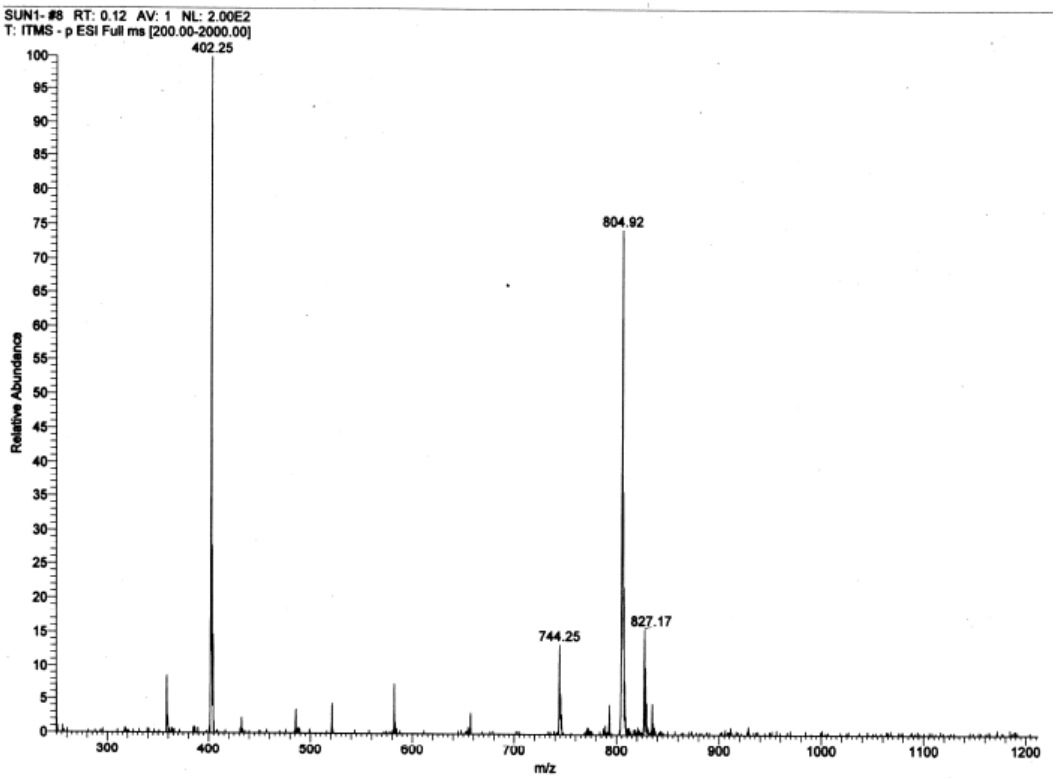

Fig. S4: ESI-MS spectrum of RAAP

4. The fluorescence spectra of RAAP in the presence of various metal ions

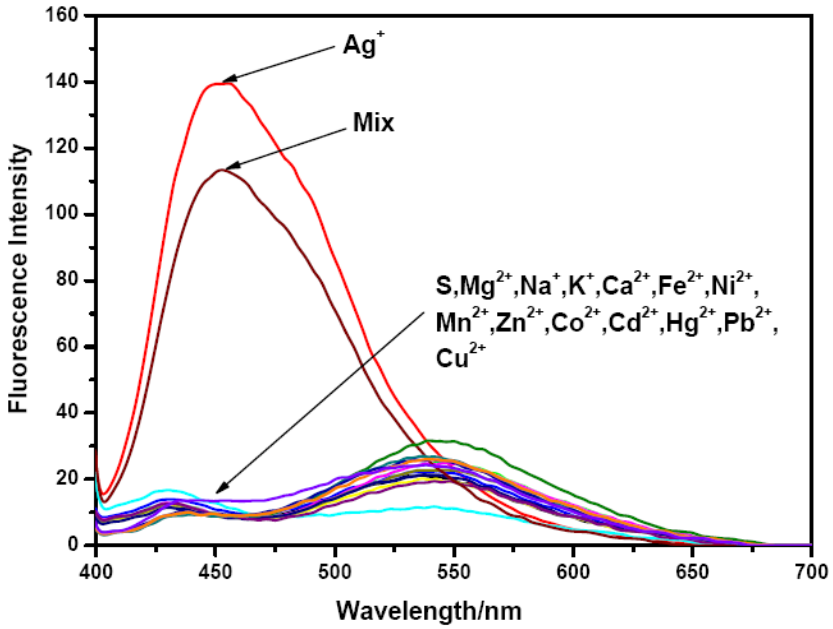

Fig. S5: The fluorescence spectra of RAAP (1×10^{-5} M in CH_3OH) induced by 2 equiv of various metal ions, λ_{ex} = 381 nm.

5. The influence of time on the fluorescence intensity of pyrene excimer emission.

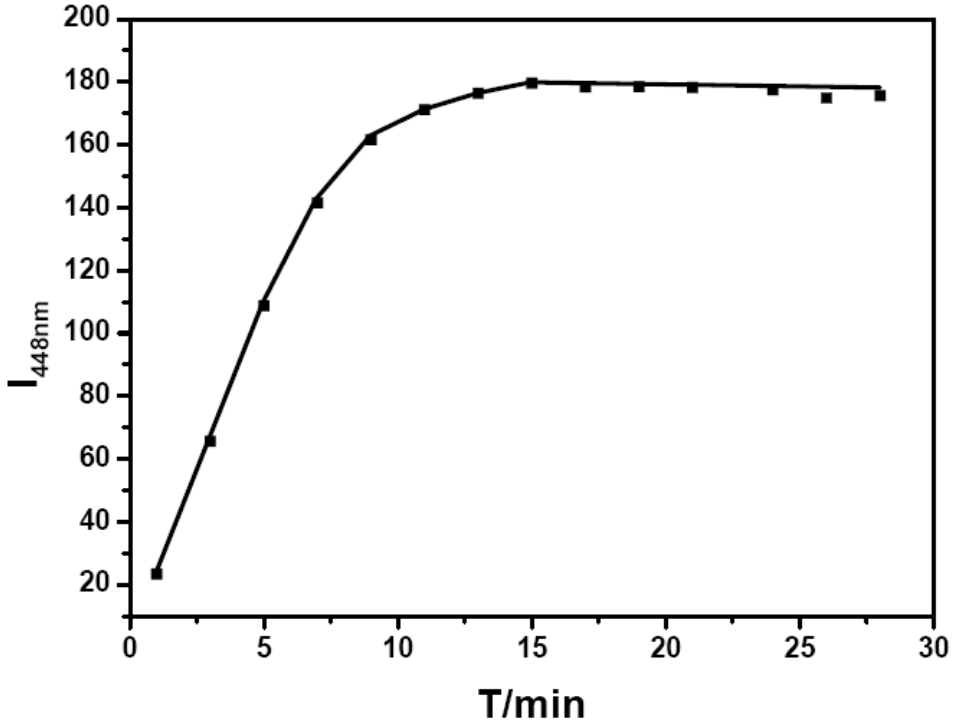

Fig. S6: The changes of fluorescence intensity at 448 nm as time went on, λ_{ex} = 381 nm.

6. UV-vis screening against other cations.

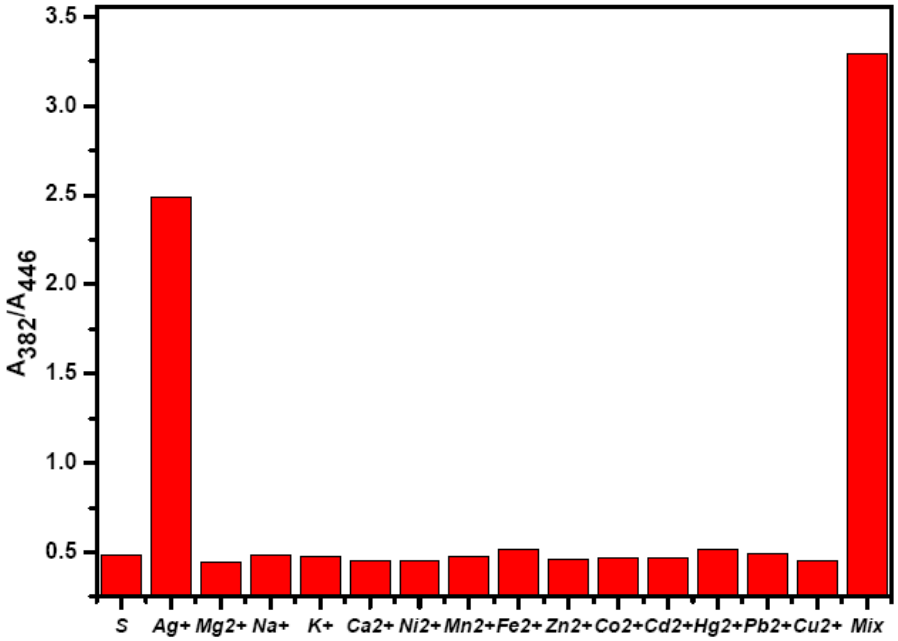

Fig. S7: UV-vis screening against other cations. [RAAP] = 1 × 10^{-5} M, [M^{n+}] = 2 × 10^{-5} M.