

Supporting Information

A Highly Sensitive and Selective Chemosensor for Pb²⁺ Based on Quinoline-coumarin

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1. Determination of association constant

The association constants (K_a) were also determined based on the fluorescent titration curve using the equation as follows:

Where F and F_0 represent the intensity of host in the presence and absence of ions, respectively, F_{max} is the saturated intensity of host in the presence of excess amount of ions; $[X]$ is the concentration of ions added.

$$\frac{1}{F - F_0} = \frac{1}{F_{max} - F_0} \left[\frac{1}{K_a[X]} + 1 \right]$$

2. ^1H NMR spectra

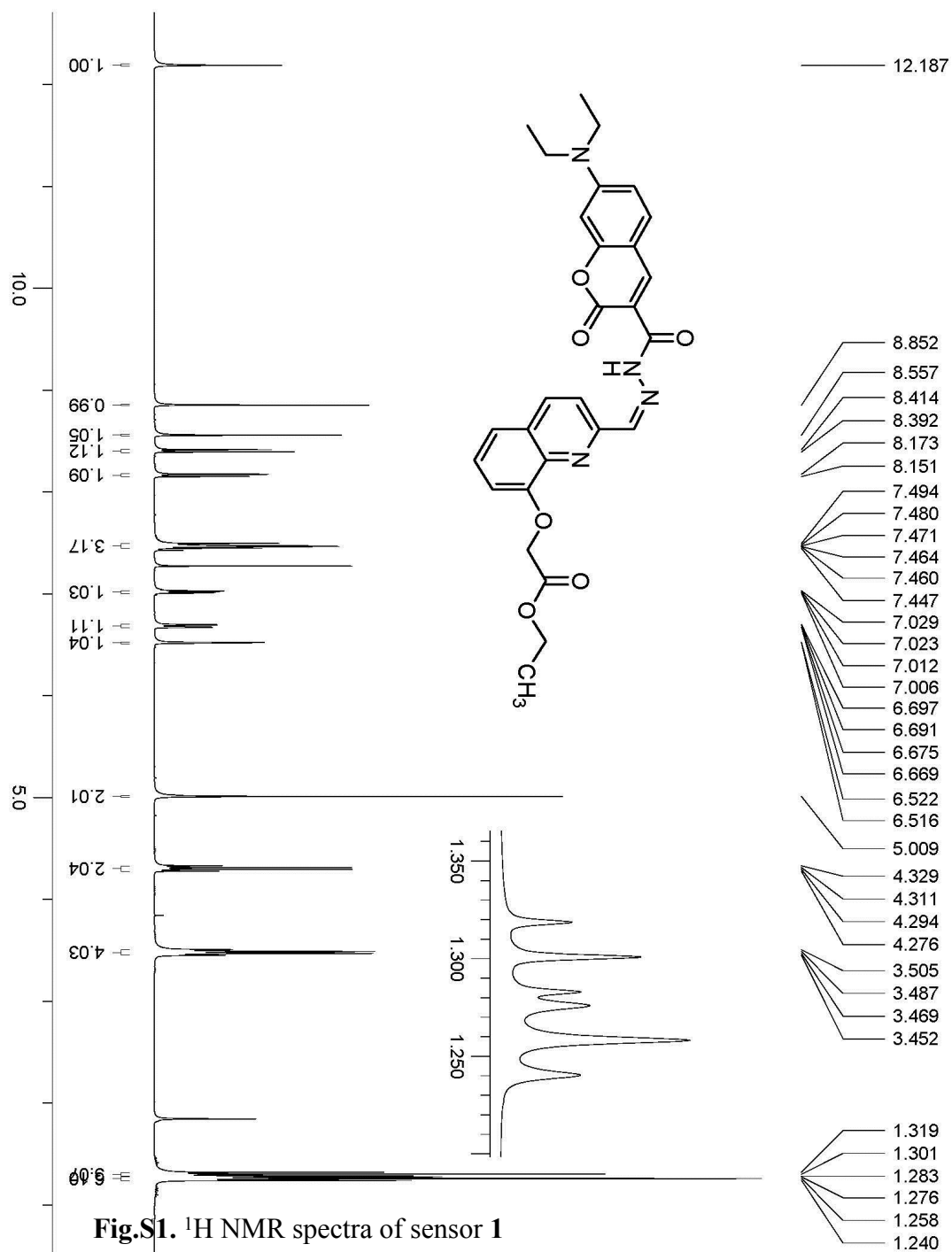


Fig.S1. ^1H NMR spectra of sensor 1

3. ^{13}C NMR spectra of sensor 1

Peking University Mass Spectrometry Sample Analysis Report

Analysis Info
 Analysis Name: FTMS-18050170_Pos_20180523_000002.d
 Sample: 2
 Comment:
 Acquisition Date: 5/23/2018 11:09:13 AM
 Instrument: Bruker Solarix XR FTMS
 Operator: Peking University

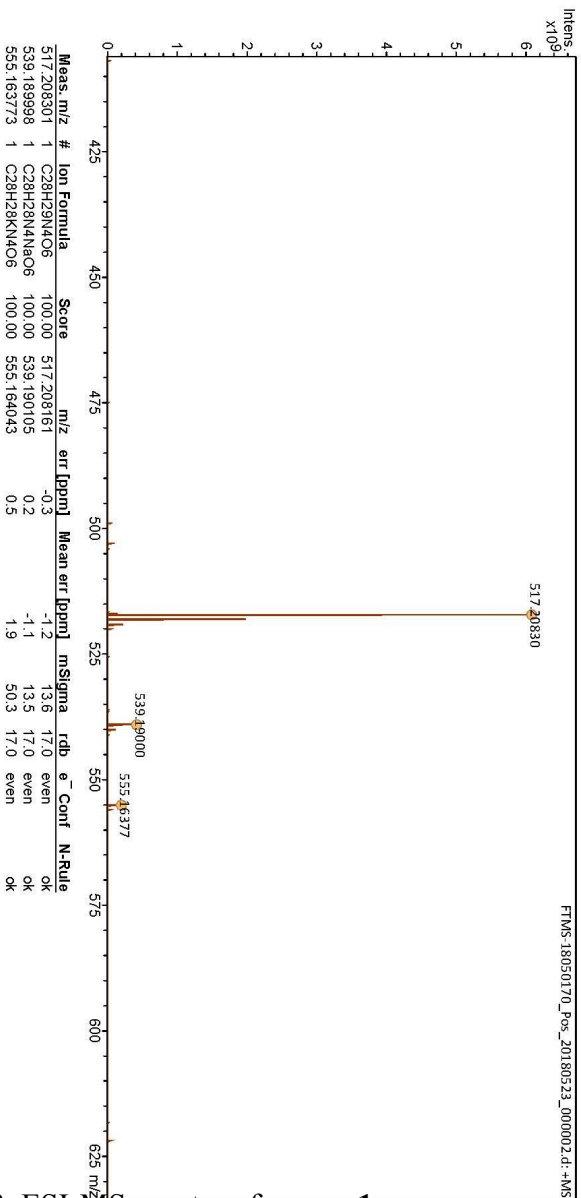


Fig.S3. ESI-MS spectra of sensor 1