

Electronic Supplementary Information (ESI)

A Novel Fluorescence Sensor for Relay Recognition of Zinc Ion and Nitric Oxide through Fluorescence 'Off-on-off' Functionality

Jie Mou ^{a,b,*}, Hao Qi ^{b,#}, Rui Xiang ^{a,#}, Shaofeng Xu ^b, Jie Liu ^a, Sihan Meng ^b, Ninghai Chen ^b, Yunsheng Xue ^{a,b}, Dongsheng Pei ^{c,*}

1. Structure characterization of the Probe LJ-1

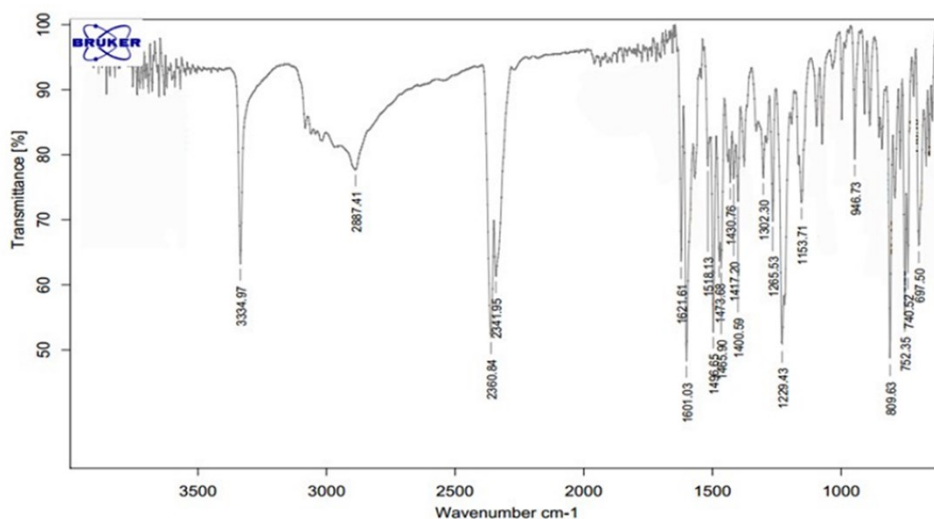


Fig. S1a IR spectrum of LJ-1

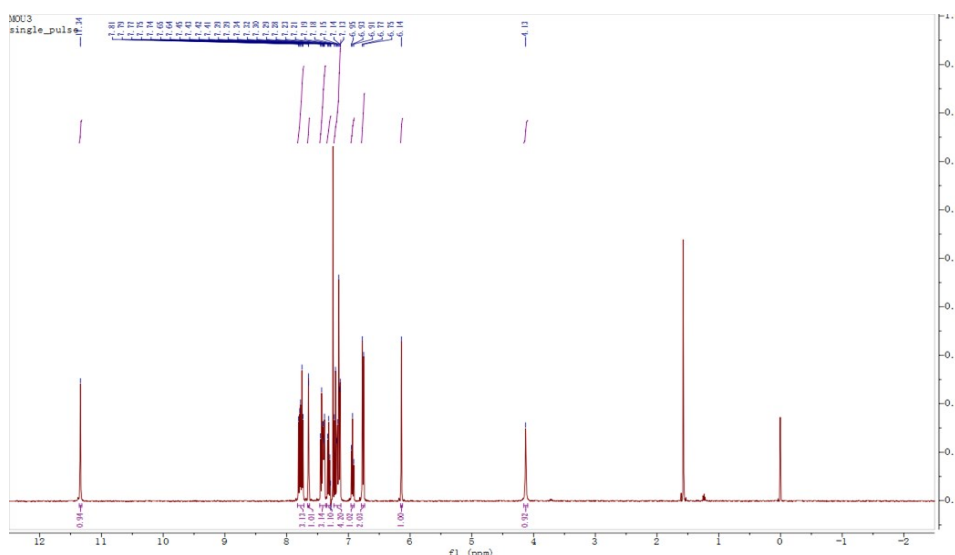


Fig. S1b ¹H NMR spectrum of LJ-1

3. Time effect on LJ-1/ Zn^{2+} complex

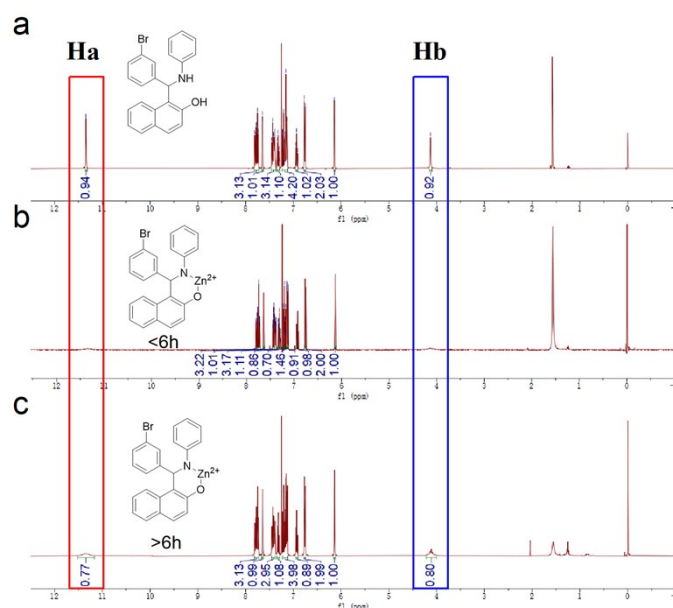


Fig. S3 Time-dependent effects on ^1H NMR characterization. a) LJ-1; b) LJ-1/ Zn^{2+} complex within 6 h; c) LJ-1/ Zn^{2+} complex after 6 h.

4. The proposed binding mode of NO to LJ-1/ Zn^{2+} complex

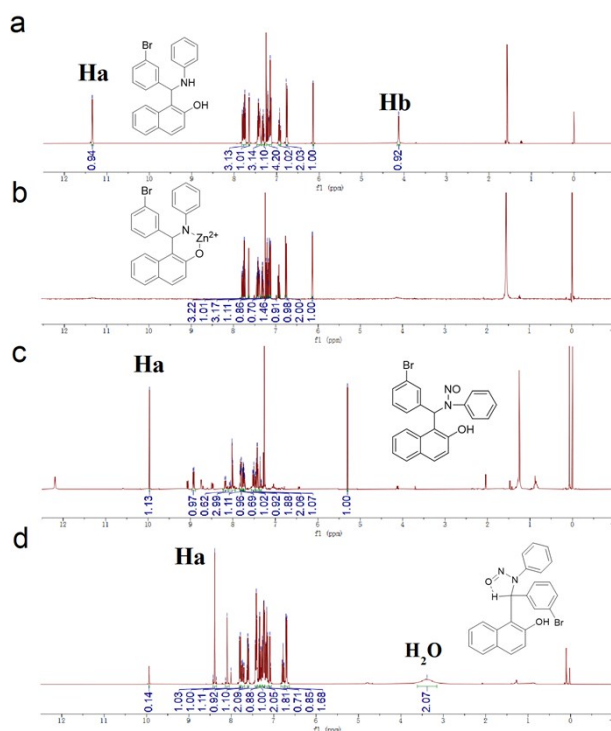


Fig. S4 Proposed response mechanism for LJ-1/ Zn^{2+} with NO on ^1H NMR. a) LJ-1; b) LJ-1/ Zn^{2+} complex; c) LJ-1/ Zn^{2+} complex exposed to NO at 1 h; d) LJ-1/ Zn^{2+} complex exposed to NO at 2 h.