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# Supplementary Material

# Construction of a New Zn(II) Coordination Polymer for Selective Fluorescence Sensing of $CCl_4$

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**Table S1.** Selected bond lengths (Å) and angles (°) for compound **1**

| | | | |
|---|---|---|---|
| Zn(1)-O(6)$^{a}$ | 1.936(4) | Zn(1)-O(2) | 1.952(4) |
| Zn(1)-N(1) | 1.988(5) | Zn(1)-O(4)$^{b}$ | 1.993(5) |
| Zn(2)-O(1)$^{e}$ | 2.051(4) | Zn(2)-O(1) | 2.051(4) |
| Zn(2)-O(5)$^{a}$ | 2.106(4) | Zn(2)-O(5)$^{c}$ | 2.106(4) |
| Zn(2)-O(4)$^{d}$ | 2.143(4) | Zn(2)-O(4)$^{b}$ | 2.143(4) |
| O(6)$^{a}$-Zn(1)-O(2) | 102.7(2) | O(6)$^{a}$-Zn(1)-N(1) | 116.3(2) |
| O(2)-Zn(1)-N(1) | 102.39(19) | O(6)$^{a}$-Zn(1)-O(4)$^{b}$ | 113.85(18) |
| O(2)-Zn(1)-O(4)$^{b}$ | 104.42(18) | N(1)-Zn(1)-O(4)$^{b}$ | 114.8(2) |
| O(1)$^{e}$-Zn(2)-O(1) | 88.2(3) | O(1)$^{e}$-Zn(2)-O(5)$^{a}$ | 179.94(18) |
| O(1)-Zn(2)-O(5)$^{a}$ | 91.75(17) | O(1)$^{e}$-Zn(2)-O(5)$^{c}$ | 91.75(17) |
| O(1)-Zn(2)-O(5)$^{c}$ | 179.94(18) | O(5)$^{a}$-Zn(2)-O(5)$^{c}$ | 88.3(2) |
| O(1)$^{e}$-Zn(2)-O(4)$^{d}$ | 94.39(16) | O(1)-Zn(2)-O(4)$^{d}$ | 90.88(16) |
| O(5)$^{a}$-Zn(2)-O(4)$^{d}$ | 85.65(16) | O(5)$^{c}$-Zn(2)-O(4)$^{d}$ | 89.08(16) |
| O(1)$^{e}$-Zn(2)-O(4)$^{b}$ | 90.88(16) | O(1)-Zn(2)-O(4)$^{b}$ | 94.39(16) |
| O(5)$^{a}$-Zn(2)-O(4)$^{b}$ | 89.08(16) | O(5)$^{c}$-Zn(2)-O(4)$^{b}$ | 85.65(16) |
| O(4)$^{d}$-Zn(2)-O(4)$^{b}$ | 172.7(2) | | |

Symmetry codes: (a) *x*, *y* + 1, *z*; (b) *x* – 1, –*y* – 1, *z* – 1/2; (c) –*x* – 1, *y* + 1, –*z* + 1/2; (d) –*x*, –*y* – 1, –*z* + 1; (e) –*x* - 1, *y*, -*z* + 1/2.

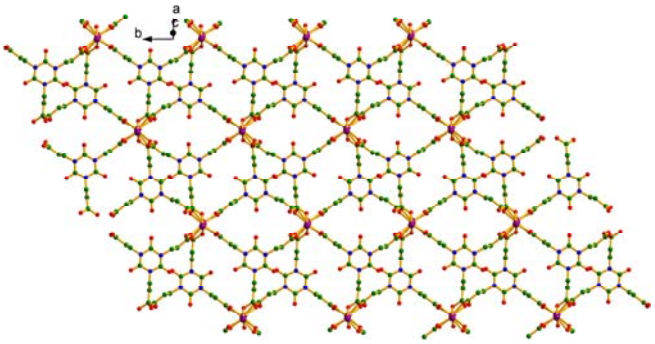


**Fig. S1.** The 2D layer constructed by the trinuclear $Zn_3$ clsuters and $tci^{3-}$ ligands.

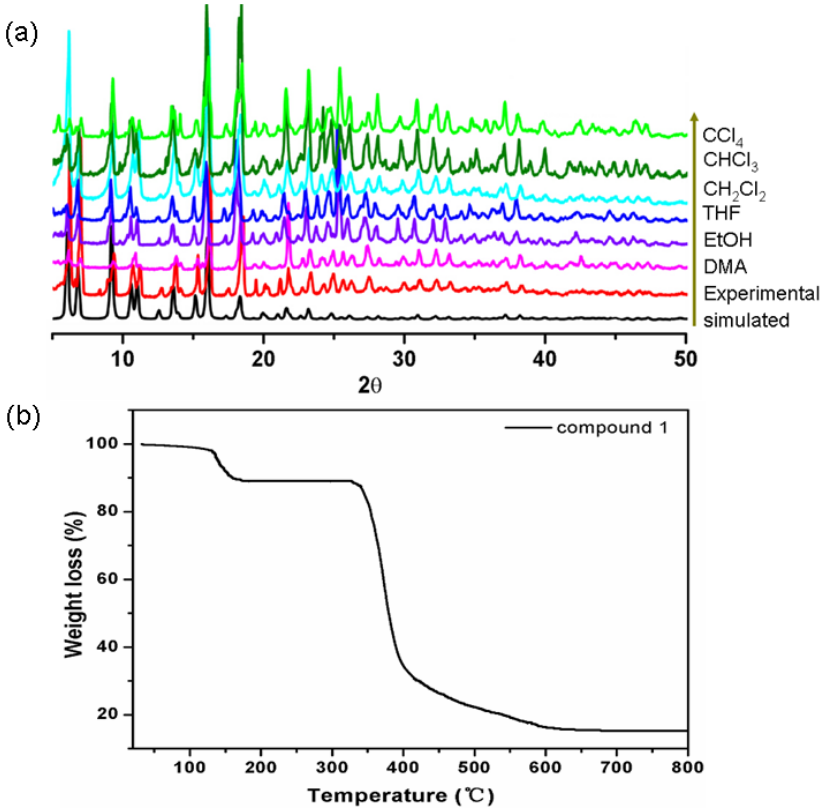


**Fig.S2** (a) PXRD patterns for compound **1**. (b) TGA curve for compound **1**.

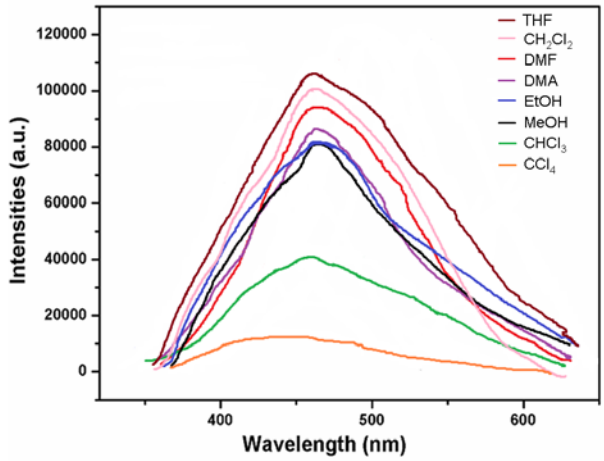


**Fig.S3** The emission spectra of the samples immersed in different solvents.