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# Chiral coordination polymer as a luminescence sensor for small organic molecules

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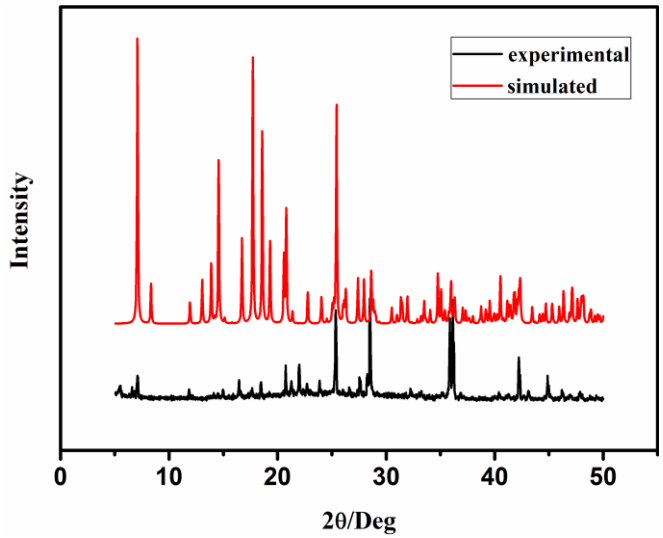


**Figure S1** The PXRD of the compound **1**.

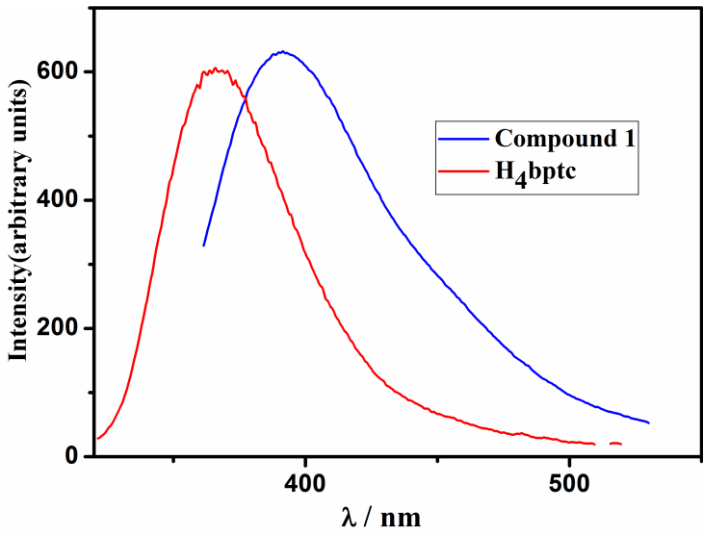


**Figure S2** Solid-state photoluminescent spectra of compound **1**, $H_4$bptc ligand at room temperature.

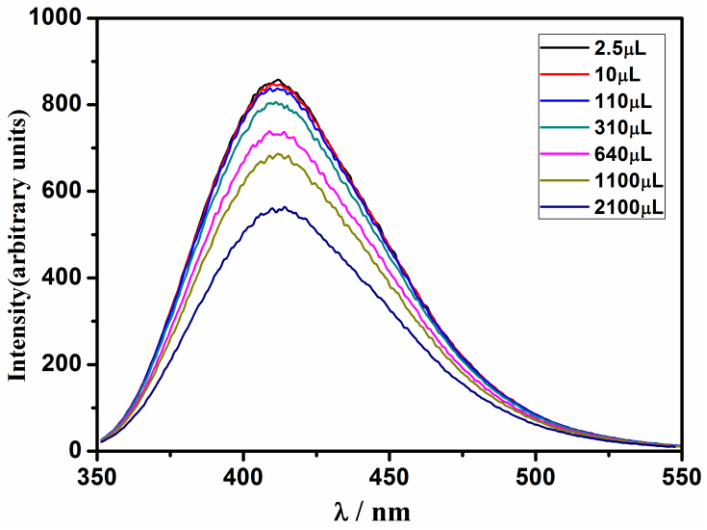


**Figure S3** The luminescence responses of **1** dispersed in NMP for acetone: Concentration-dependent luminescence quenching of **1** after adding different amounts of acetone.

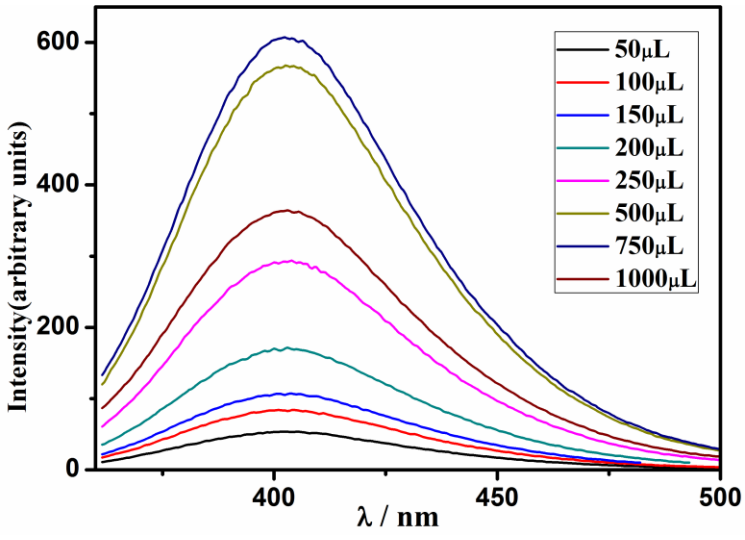


**Figure S4** The luminescence responses of **1** dispersed in acetone for NMP: Concentration-dependent luminescence quenching of **1** after adding different amounts of NMP.

**Table S1** Selected Bond Lengths (Å) and Angles (deg) for Complex **1**.

Complex **1**

| | | | |
|---|---|---|---|
| Cd1-O1 | 2.408(4) | Cd1-O1W | 2.307(4) |
| Cd1-O2 | 2.368(4) | Cd1-O2W | 2.335(5) |
| Cd1-O1a | 2.408(4) | Cd1-O1Wa | 2.281(4) |
| Cd1-O2a | 2.368(4) | Cd2-O3W | 170.7(2) |
| Cd2-O4W | 2.390(4) | Cd2-O5 | 2.406(3) |
| Cd2-O6 | 2.356(3) | Cd2-O3Wb | 2.281(4) |
| Cd2-O5b | 2.406(3) | Cd2-O6b | 2.356(3) |
| O1-Cd1-O1W | 86.16(16) | O1-Cd1-O2 | 54.62(12) |
| O1-Cd1-O2W | 130.99(9) | O1a-Cd1-O1Wa | 86.16(16) |
| O1a-Cd1-O2a | 54.62(12) | O1-Cd1-O1a | 98.01(13) |
| O1-Cd1-O1Wa | 87.18(16) | O1Wa-Cd1-O2a | 90.94(15) |
| O1-Cd1-O2a | 152.63(12) | O1W-Cd1-O2 | 90.94(15) |
| O3W-Cd2-O4W | 136.40(11) | O1W-Cd1-O2W | 95.08(12) |
| O3W-Cd2-O5 | 73.89(14) | O3W-Cd2-O6 | 104.46(14) |
| O1a-Cd1-O1W | 87.18(16) | O1W-Cd1-O1Wa | 169.84(17) |
| O3W-Cd2-O3Wb | 87.20(15) | O1W-Cd1-O2a | 91.45(15) |
| O3W-Cd2-O5b | 127.46(14) | O3W-Cd2-O6b | 85.66(14) |
| O2 -Cd1-O2W | 76.37(8) | O4W-Cd2-O5 | 76.80(9) |
| O1a-Cd1-O2 | 152.63(12) | O4W-Cd2-O6 | 83.10(9) |
| O1Wa-Cd1-O2 | 91.45(15) | O2 -Cd1-O2a | 152.75(11) |
| O3Wb-Cd2-O4W | 136.40(11) | O4W-Cd2-O5b | 76.80(9) |
| O4W-Cd2-O6b | 83.10(9) | O1a-Cd1-O2W | 130.99(9) |
| O1Wa -Cd1-O2W | 95.08(12) | O5 -Cd2-O6 | 54.43(12) |
| O2a-Cd1-O2W | 76.37(8) | O3Wb-Cd2-O5 | 127.46(14) |
| O5 -Cd2-O5b | 153.60(13) | O5 -Cd2-O6b | 121.79(12) |
| O3Wb-Cd2-O6 | 85.66(14) | O5b-Cd2-O6 | 121.79(12) |
| O6 -Cd2-O6b | 166.19(13) | O3Wb-Cd2-O5b | 73.89(14) |
| O3Wb-Cd2-O6b | 104.46(14) | O5b-Cd2-O6b | 54.43(12) |

Symmetry Codes: for **1:** a = *x*, 1 - *y*, 2 - *z*; b = 0.5 - *x*, - 0.5 - *y*, *z*.