

Supplementary Information:

A modular approach for molecular recognition by zinc dipicolinate complexes

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List of supporting information:

Figure 1S: ¹H-NMR spectra (DMSO-d₆) of 1,3-bis(4-pyridine)propane, 2,7-dihydroxynaphthalene, mixture of 1,3-bis(4-pyridine)propane and 1,3-bis(4-pyridine)propane, and complex **4**.

Figure 2S: ¹H-NMR (DMSO-d₆) spectra of (i) 4,4'-bipyridine, (ii) 2,7-dihydroxynaphthalene, (iii) 1:1 mixture of 4,4'-bipyridine and 2,7-dihydroxynaphthalene, and (iv) complex **5**.

Figure 3S: ¹H-NMR spectra (DMSO-d₆) of 4,4'-bipyridine, pyrogallol, mixture of 4,4'-bipyridine and pyrogallol, and complex **6**.

Figure 4S: ¹H-NMR spectra (DMSO-d₆) of 1,3-bis(4-pyridine)propane, 2,6-dihydroxynaphthalene, mixture of 1,3-bis(4-pyridine)propane and 2,6-dihydroxynaphthalene, and complex **7**.

Figure 5S: Thermogram of Complex **1**

Figure 6S: Thermogram of Complex **2**

Figure 7S: Thermogram of Complex **3**

Figure 8S: Thermogram of Complex **4**

Figure 9S: Thermogram of Complex **5**

Figure 10S: Thermogram of Complex **6**

Figure 11S: Thermogram of Complex **7**

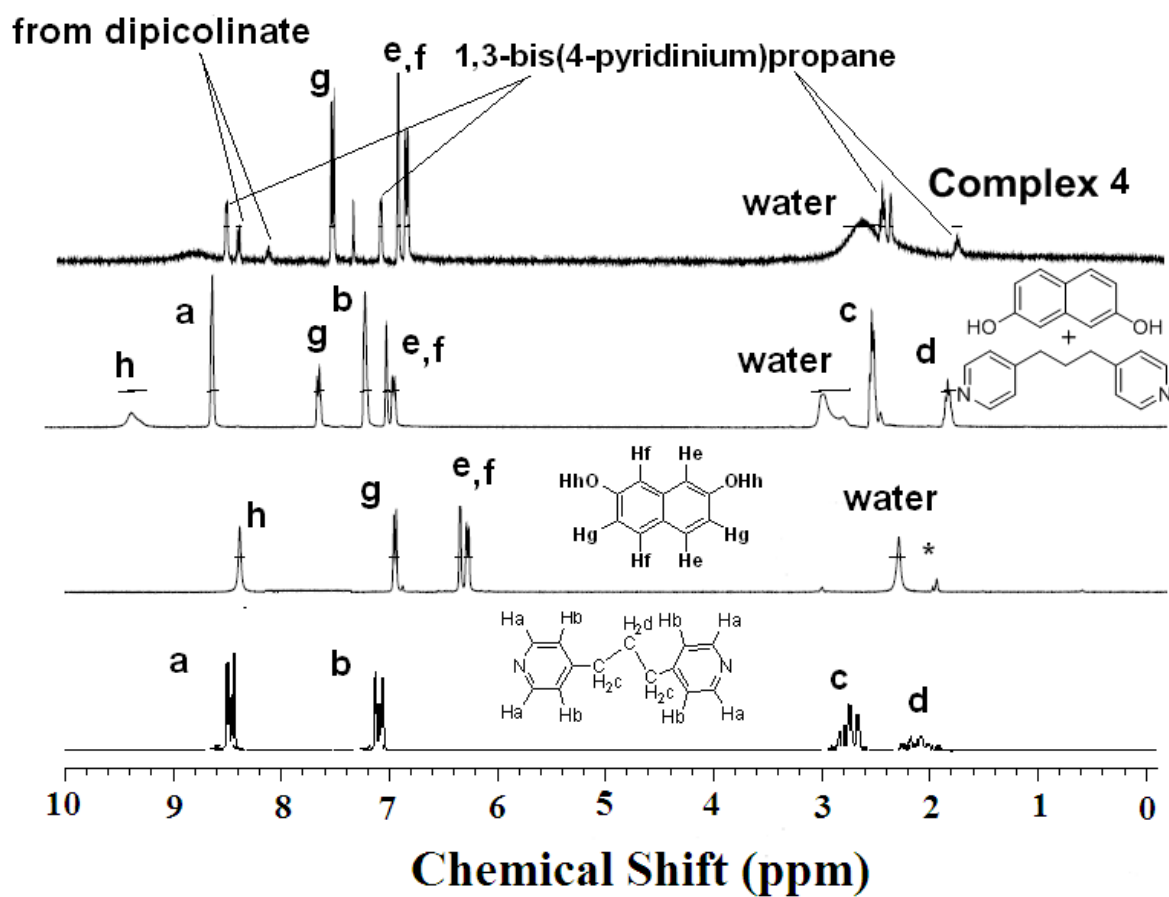


Figure 1S: ^1H -NMR spectra (DMSO-d_6) of 1,3-bis(4-pyridine)propane, 2,7-dihydroxynaphthalene, mixture of 1,3-bis(4-pyridine)propane and 1,3-bis(4-pyridine)propane, and complex 4.

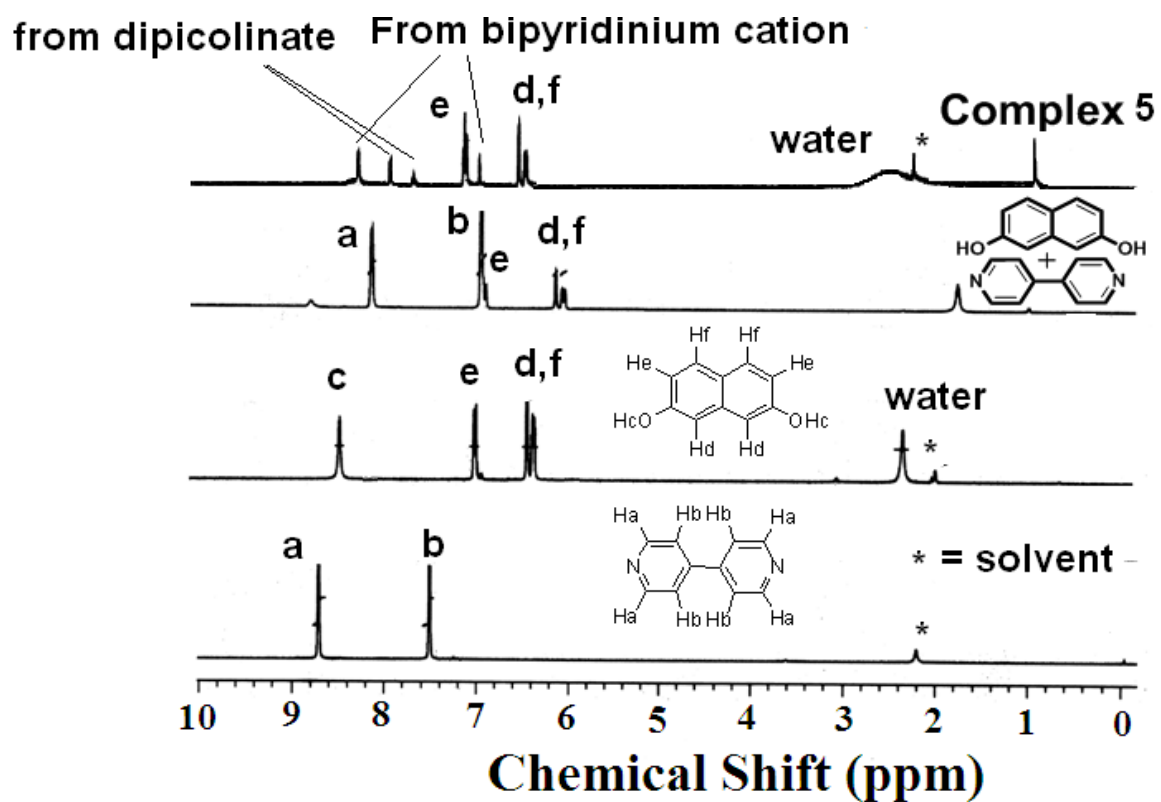


Figure 2S: ^1H -NMR (DMSO-d_6) spectra of (i) 4,4'-bipyridine, (ii) 2,7-dihydroxynaphthalene, (iii) 1:1 mixture of 4,4'-bipyridine and 2,7-dihydroxynaphthalene, and (iv) complex **5**.

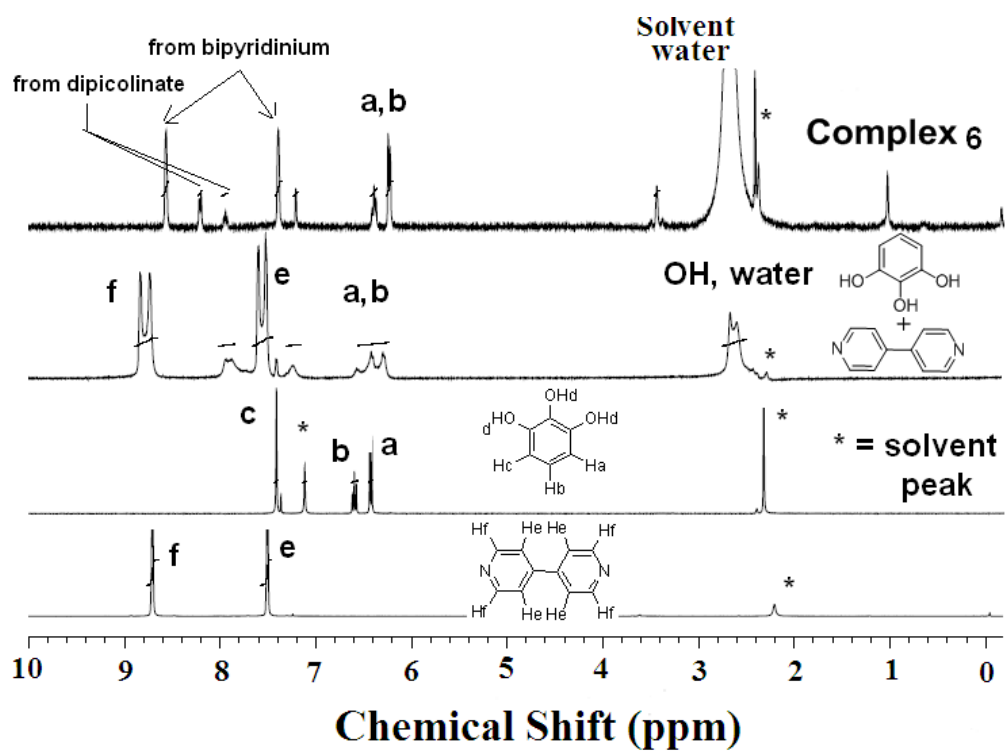


Figure 3S: ^1H -NMR spectra (DMSO- d_6) of 4,4'-bipyridine, pyrogallol, mixture of 4,4'-bipyridine and pyrogallol, and complex 6.

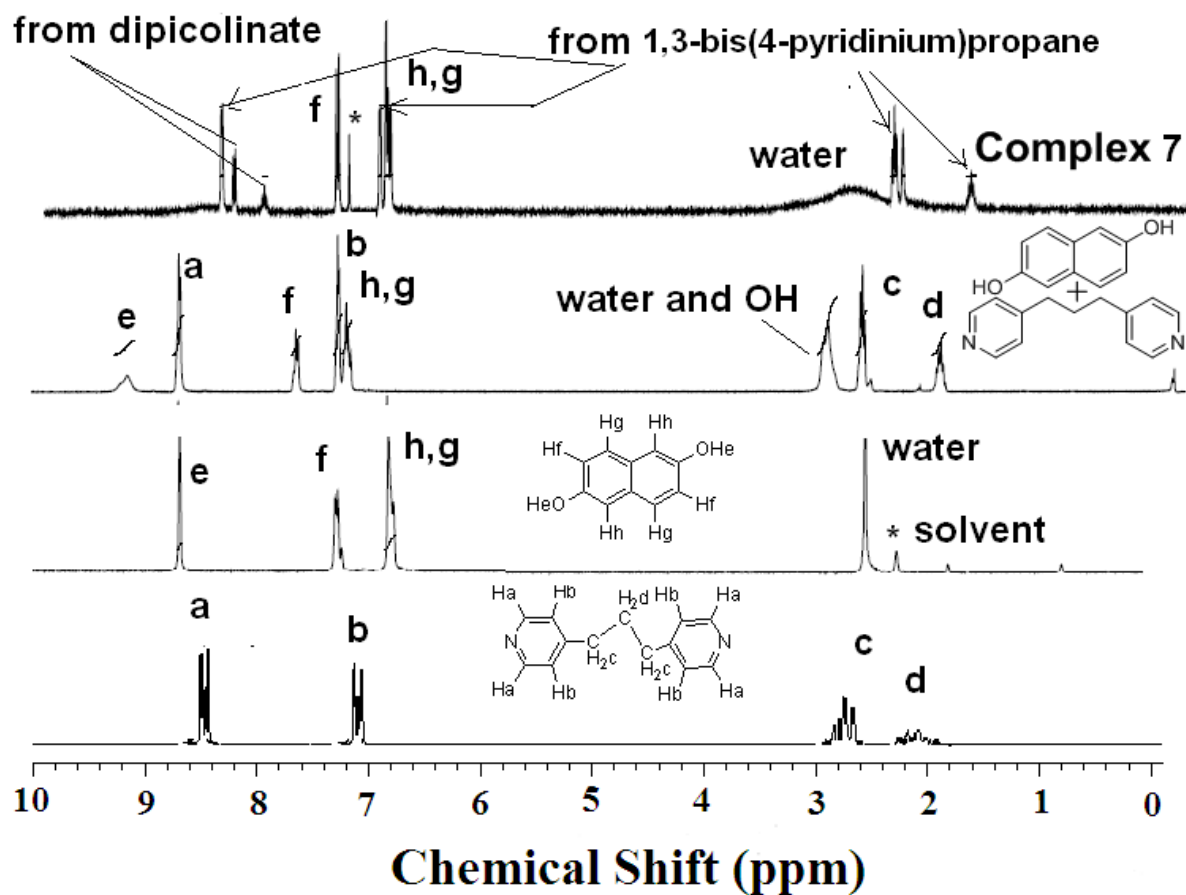


Figure 4S: ^1H -NMR spectra(DMSO- d_6) of 1,3-bis(4-pyridine)propane, 2,6-dihydroxynaphthalene, mixture of 1,3-bis(4-pyridine)propane and 2,6-dihydroxynaphthalene, and complex 7.

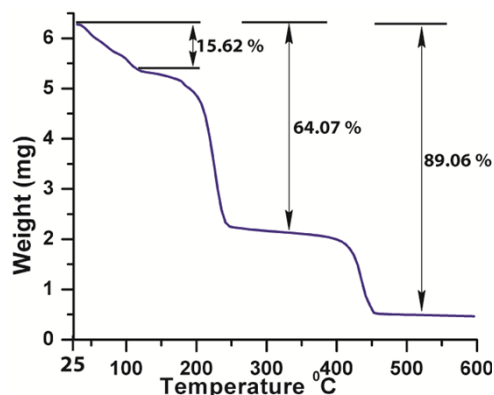


Figure 5S: Thermogram of complex 1

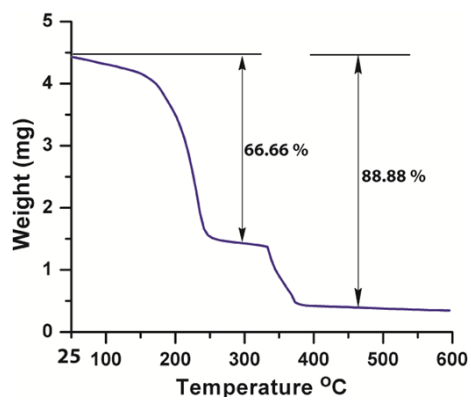


Figure 6S: Thermogram of complex 2

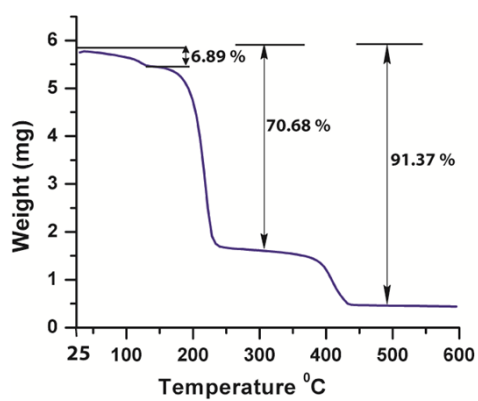


Figure 7S: Thermogram of complex 3

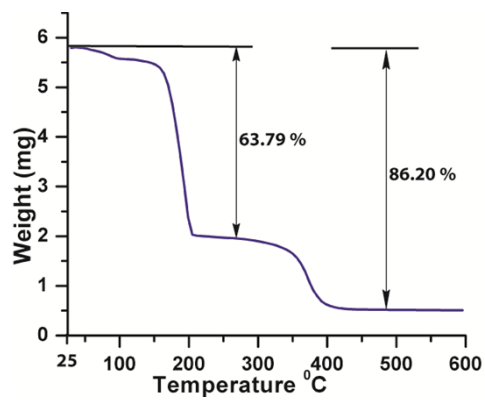


Figure 8S: Thermogram of complex 4

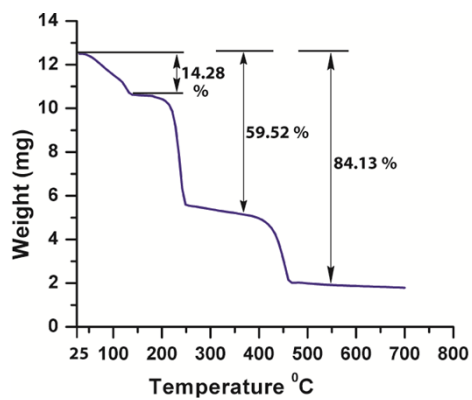


Figure 9S: Thermogram of complex 5

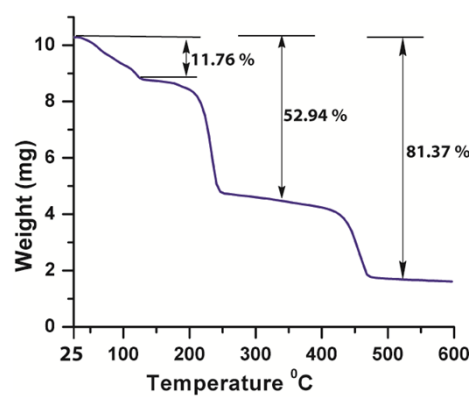


Figure 10S: Thermogram of complex 6

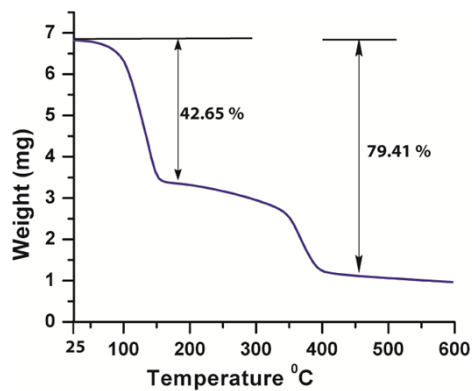


Figure 11S: Thermogram of complex 7