

Supporting materials

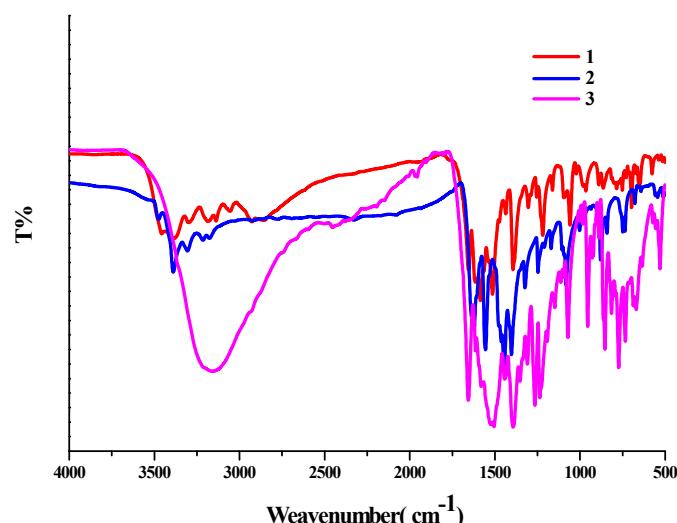


Fig. S1 IR spectra of 1-3.

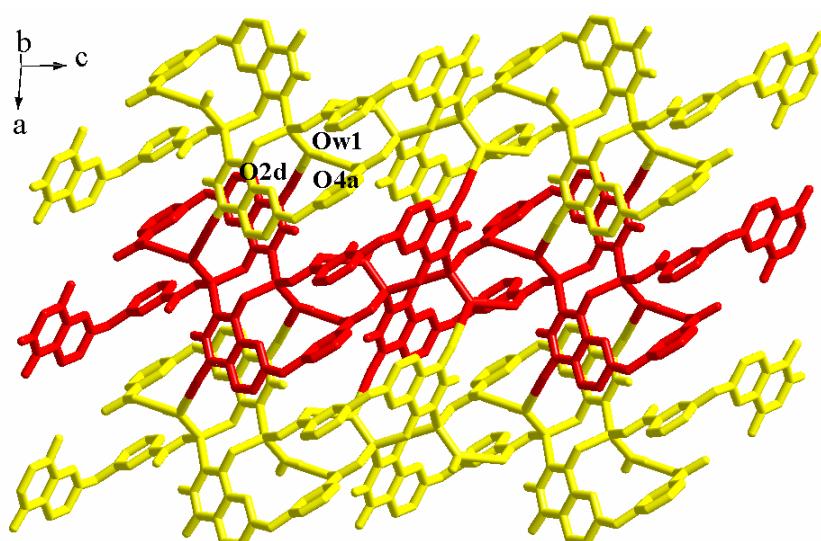


Fig. S2 A plot showing hydrogen-bonded interactions between chains in 3.

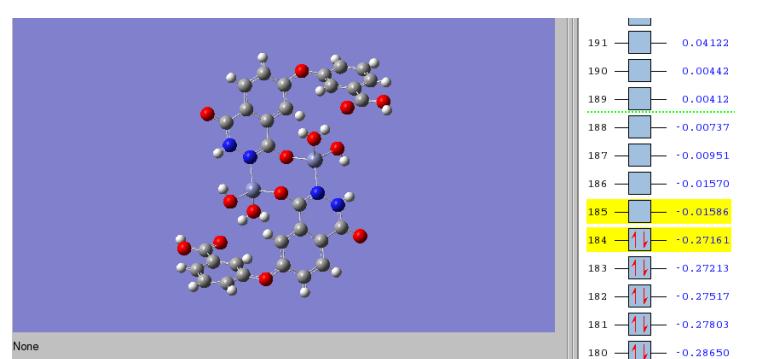


Fig. S3 First singlet excited state structure of **3**.

Computational details for DFT calculations for compound **3**

The ground state geometry of the isolated molecule has been fully optimized by Gaussian 09 program package¹ with the long-range corrected functional CAM-B3LYP.² In terms of basis sets, the double- ζ quality 6-31G* and LanL2TZ basis set³ associated with the pseudopotential were respectively employed for the lighter nonmetallic atoms in ligands (such as N, O, C, H, atoms) and the Zn atom.

References

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- 2 T. Yanai, D. P. Tew and N. C. Handy, *Chemical Physics Letters*, 2004, **393**, 51-57.
- 3 (a) P. J. Hay and W. R. Wadt, *J. Chem. Phys.*, 1985, **82**, 270; (b) P. J. Hay and W. R. Wadt, *J. Chem. Phys.*, 1985, **82**, 284 ; (c) P. J. Hay and W. R. Wadt, *J. Chem. Phys.*, 1985, **82**, 299.