## **Supplementary Information**

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Fig. S1 The IR spectra of 1, H<sub>4</sub>[SiW<sub>12</sub>O<sub>40</sub>] nH<sub>2</sub>O and H<sub>2</sub>pydc ligands.

**Fig. S2** The UV spectra of 1,  $H_4[SiW_{12}O_{40}] \cdot nH_2O$  and  $H_2pydc$  ligands.

Fig. S3 The TG/DTA curve of 1.

Fig. S4 Comparison of the simulated and experimental PXRD patterns of 1.



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Fig. S4 Comparison of the simulated and experimental PXRD patterns of 1.

The experimental PXRD pattern of the bulk product of **1** is in good agreement with the simulated PXRD pattern, comfirming the phase purity of the sample (Fig. S4). The difference in intensity between them is attributed to the variation in preferred orientation of the powder sample during collection of the experimental PXRD.