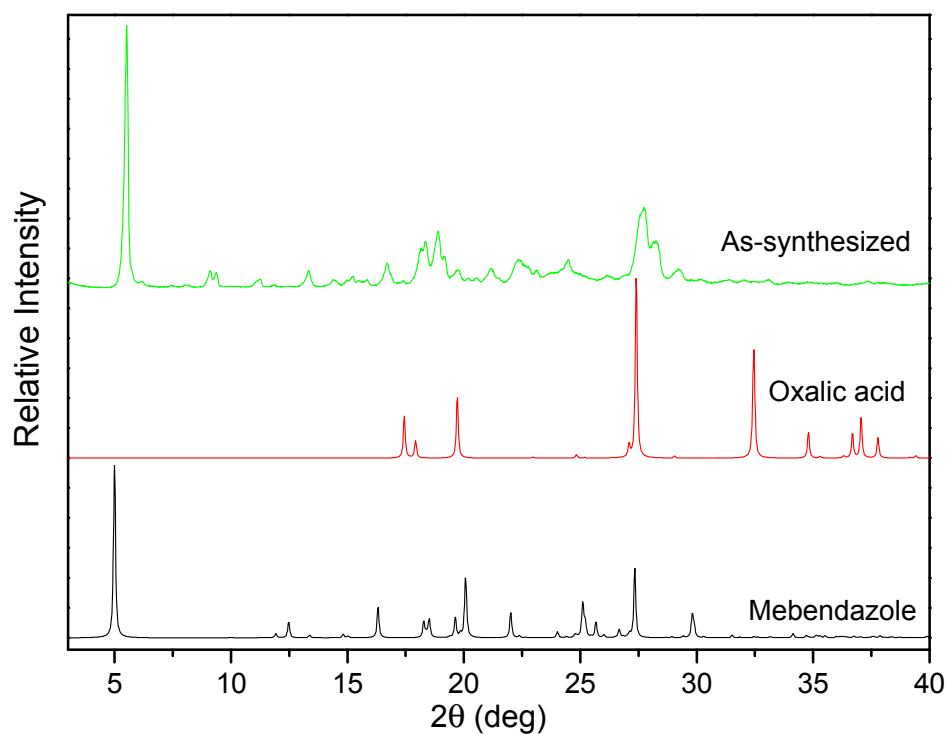


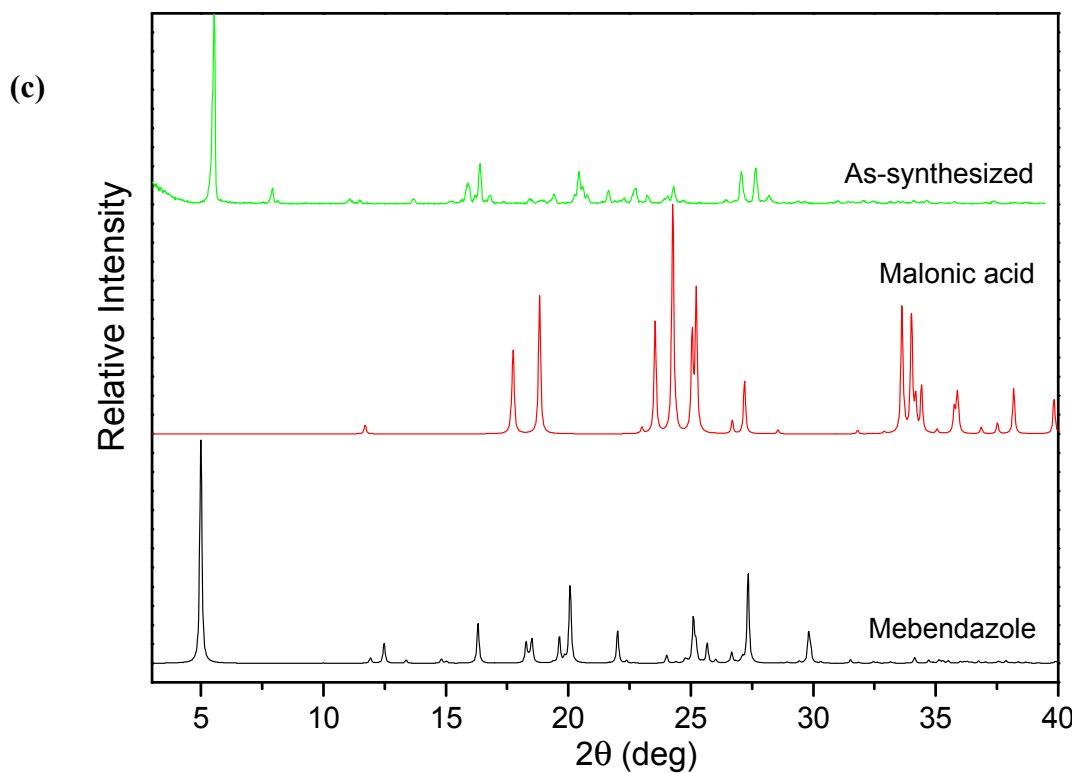
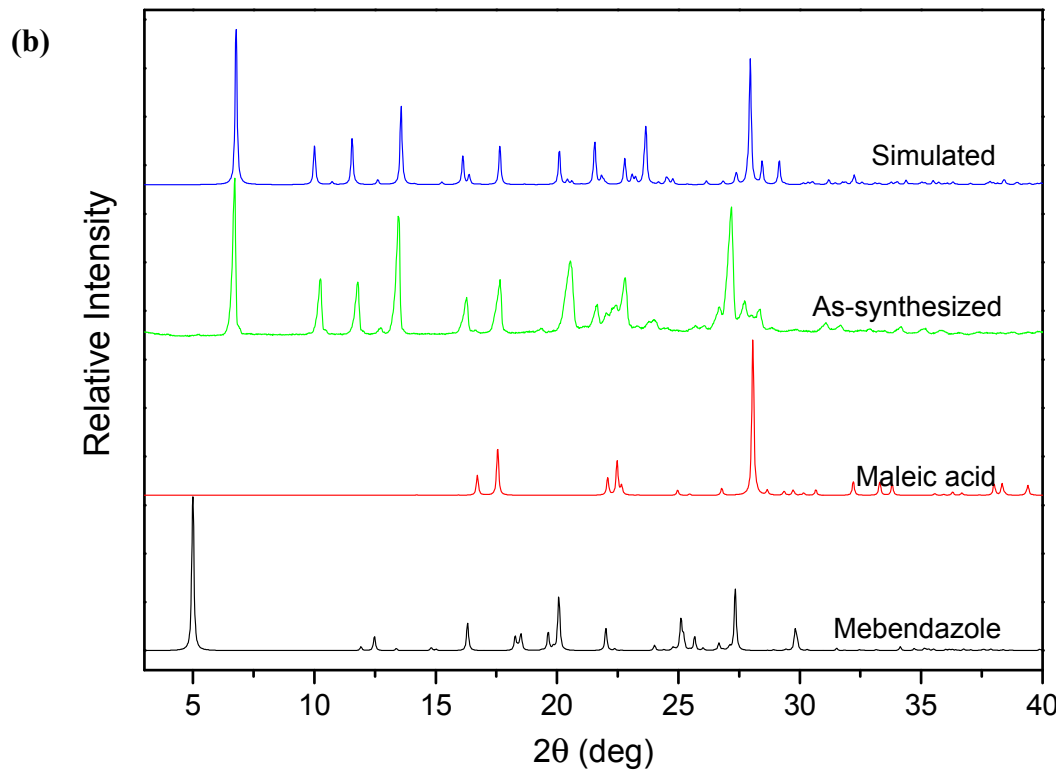
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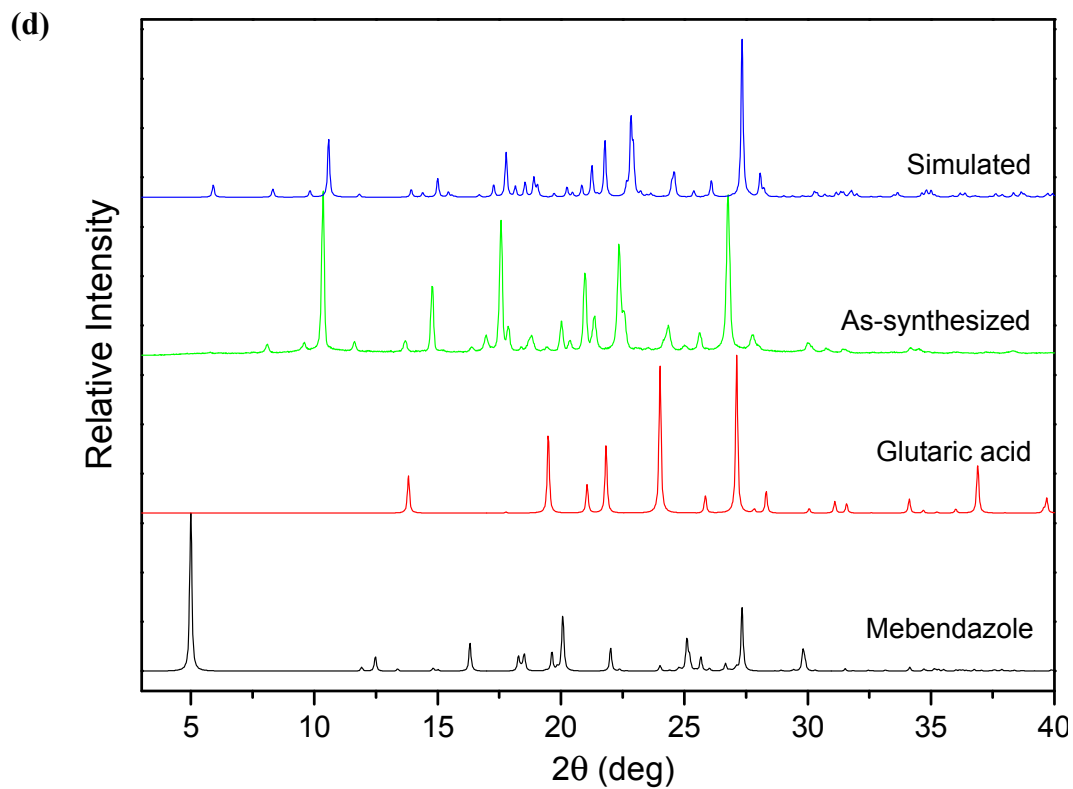
## Crystal engineering approach to improve the solubility of mebendazole

Jia-Mei Chen, Zi-Zhou Wang, Chuan-Bin Wu, Song Li and Tong-Bu Lu\*

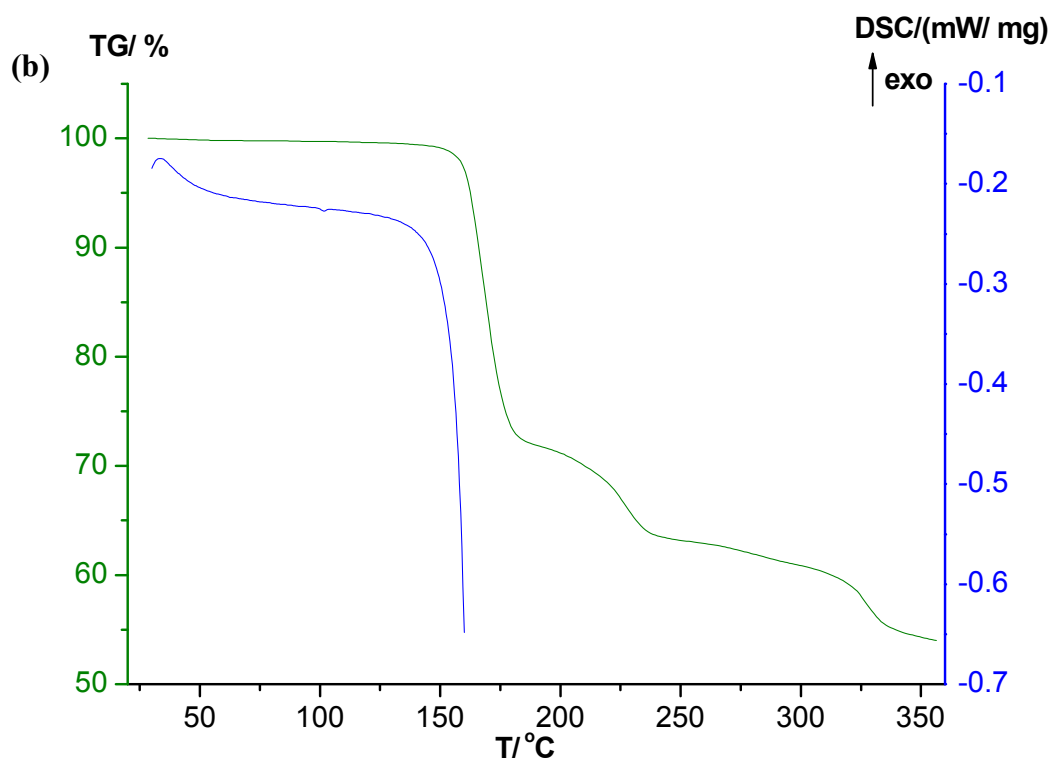
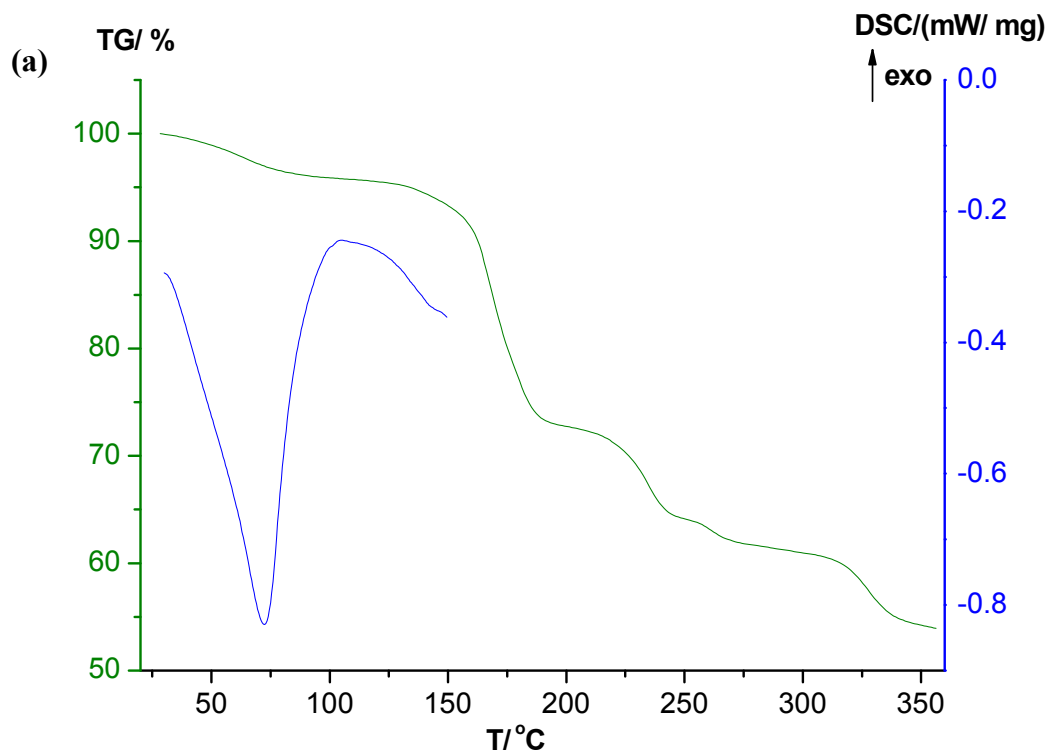
(a)

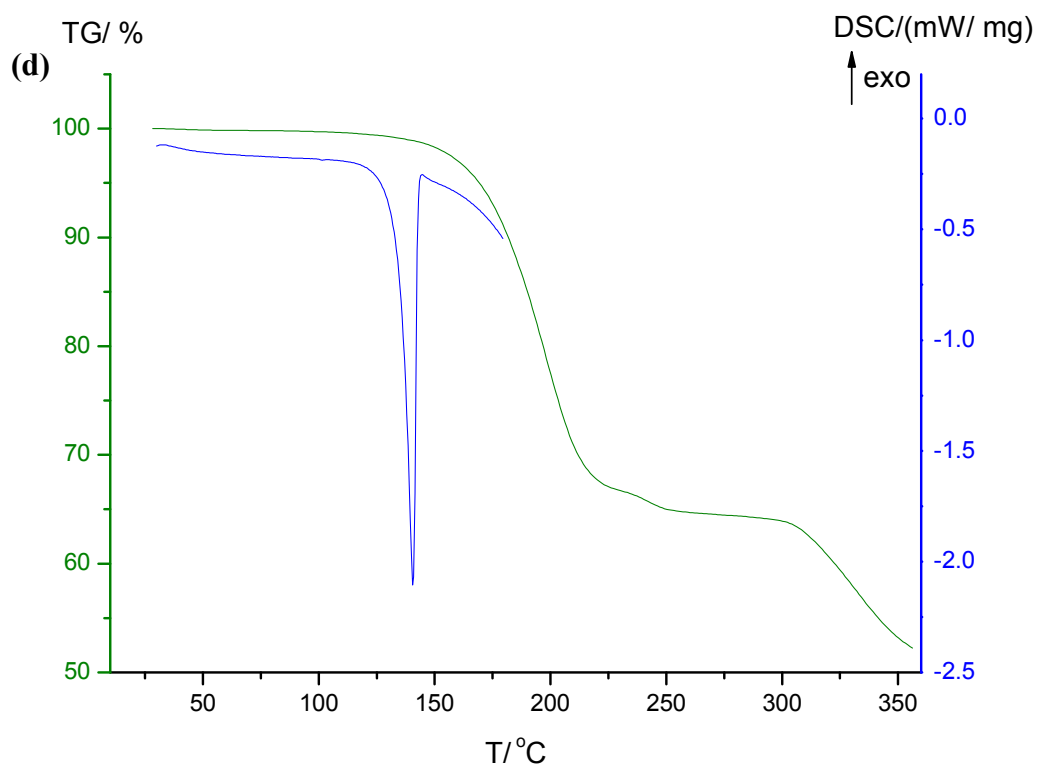
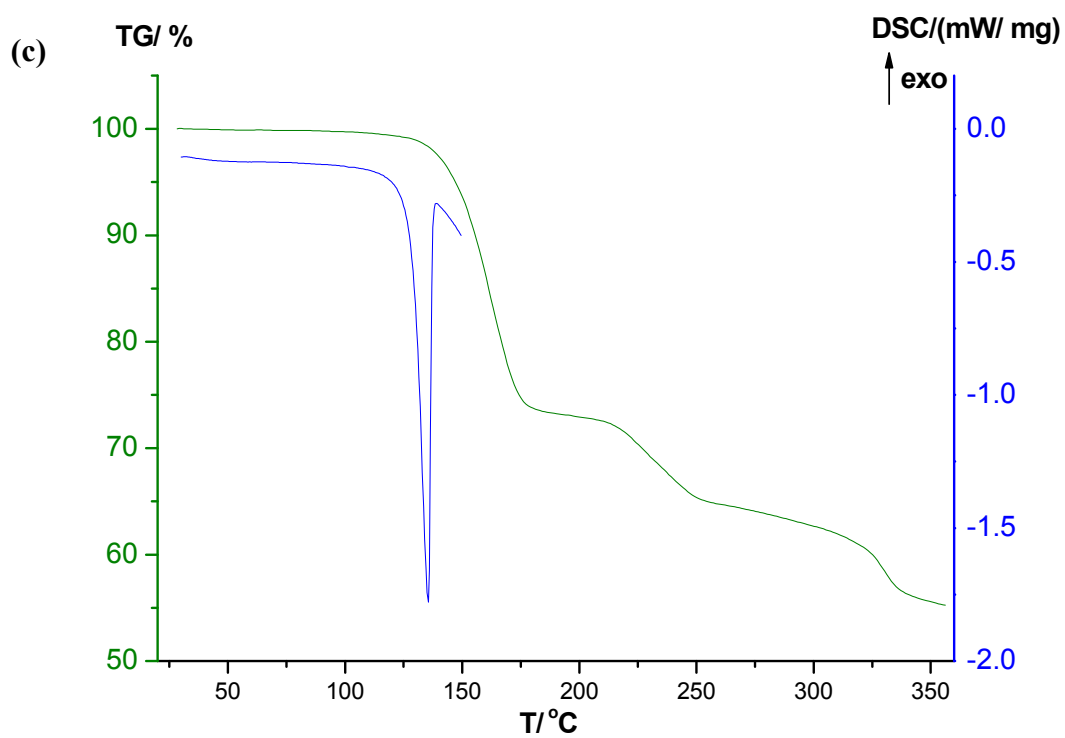






**Fig. S1** PXRd patterns of mebendazole, co-formers, as-synthesized by reaction crystallization method, and simulated from the single-crystal data for (a)  $1 \cdot \text{H}_2\text{O}$ , (b) **2**, (c) **3**, and (d) **4**.





**Fig. S2** The TG and DSC curves for (a)  $1 \cdot \text{H}_2\text{O}$ , (b) **2**, (c) **3**, and (d) **4**.

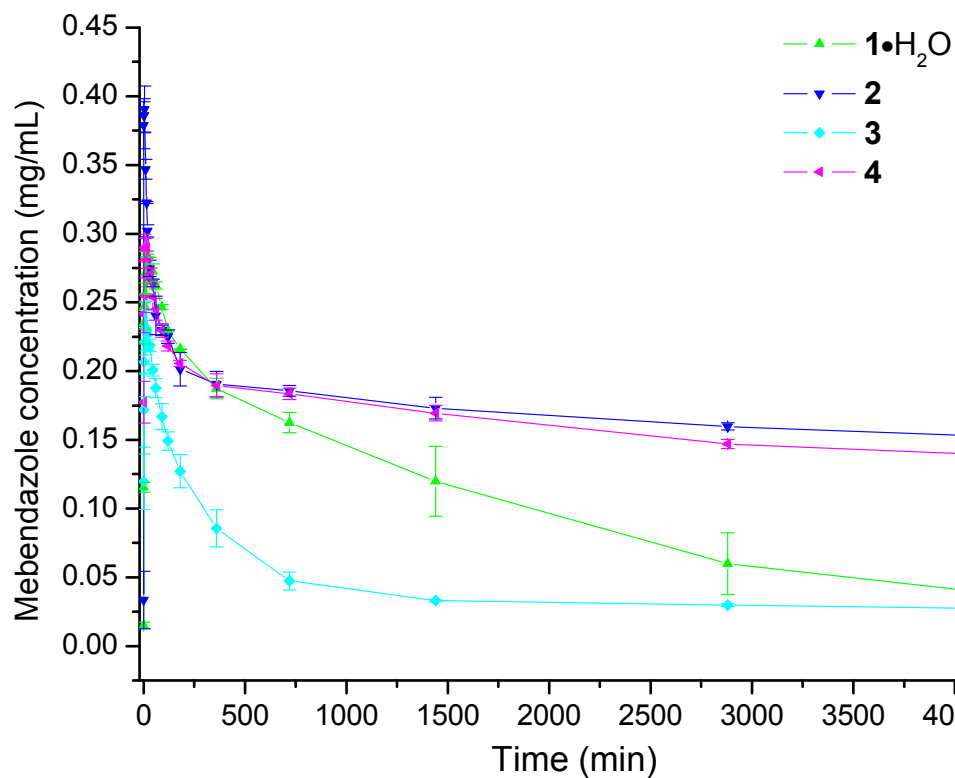
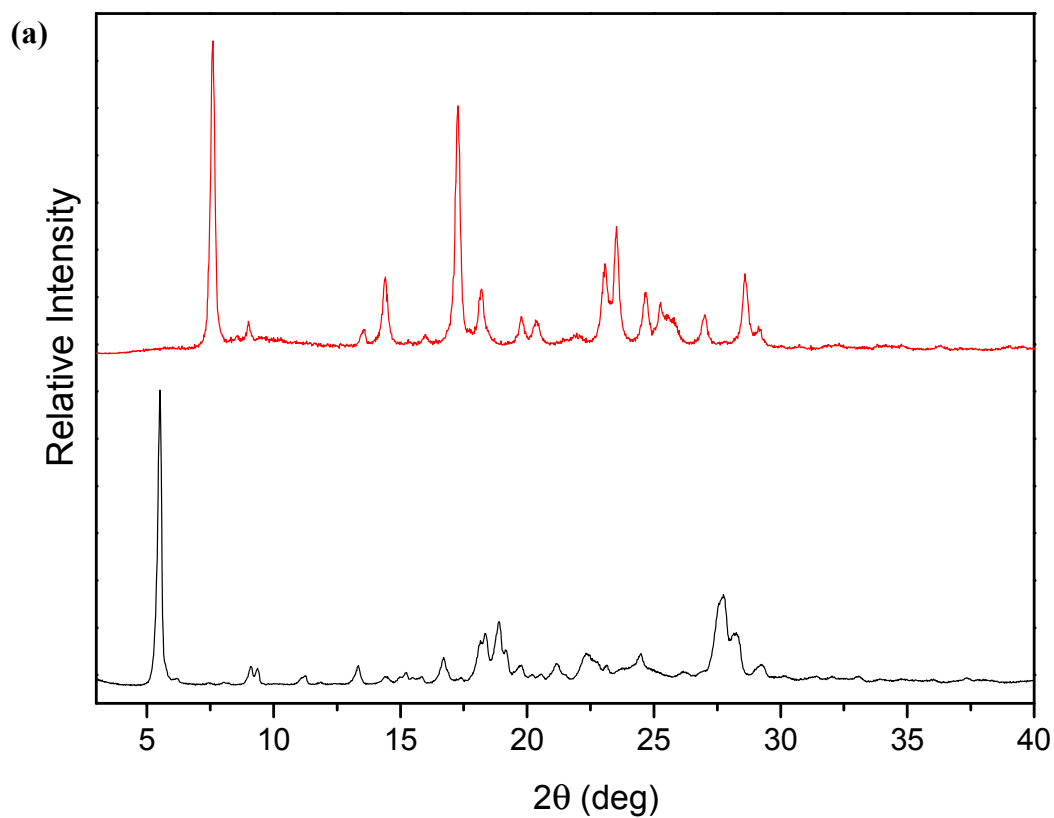
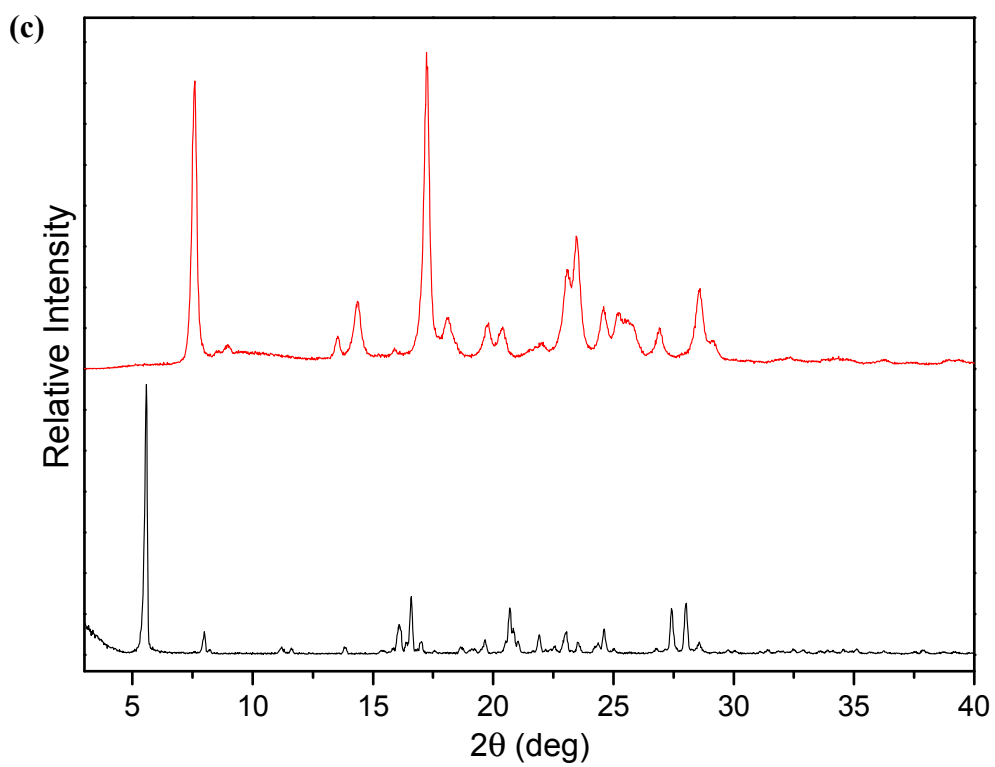
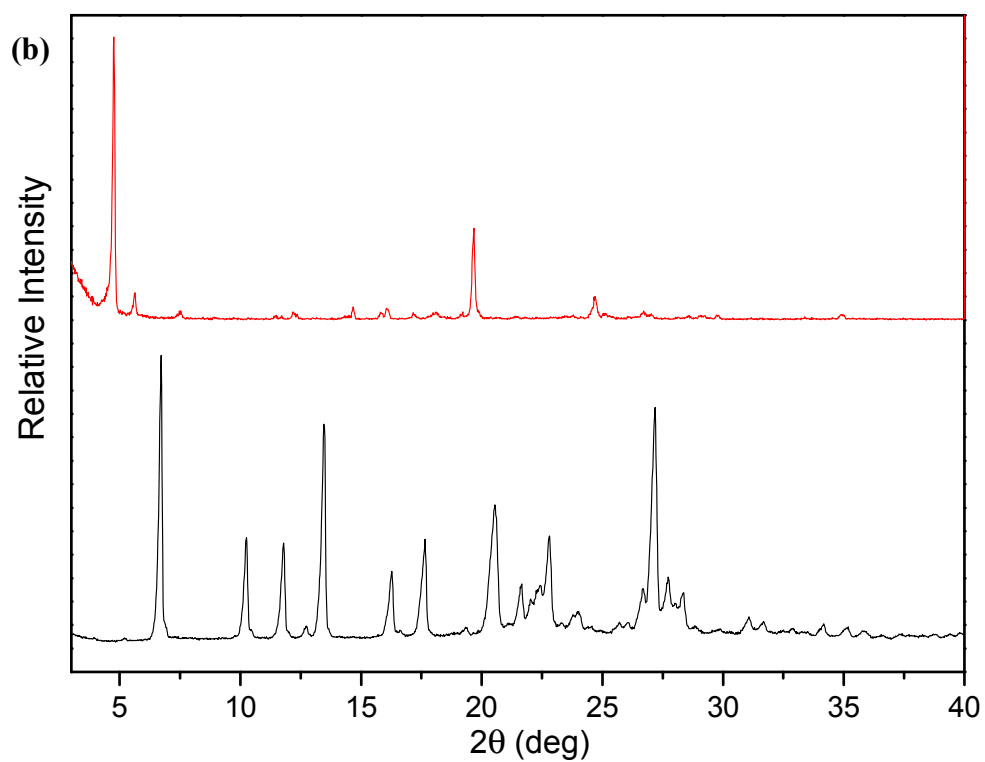
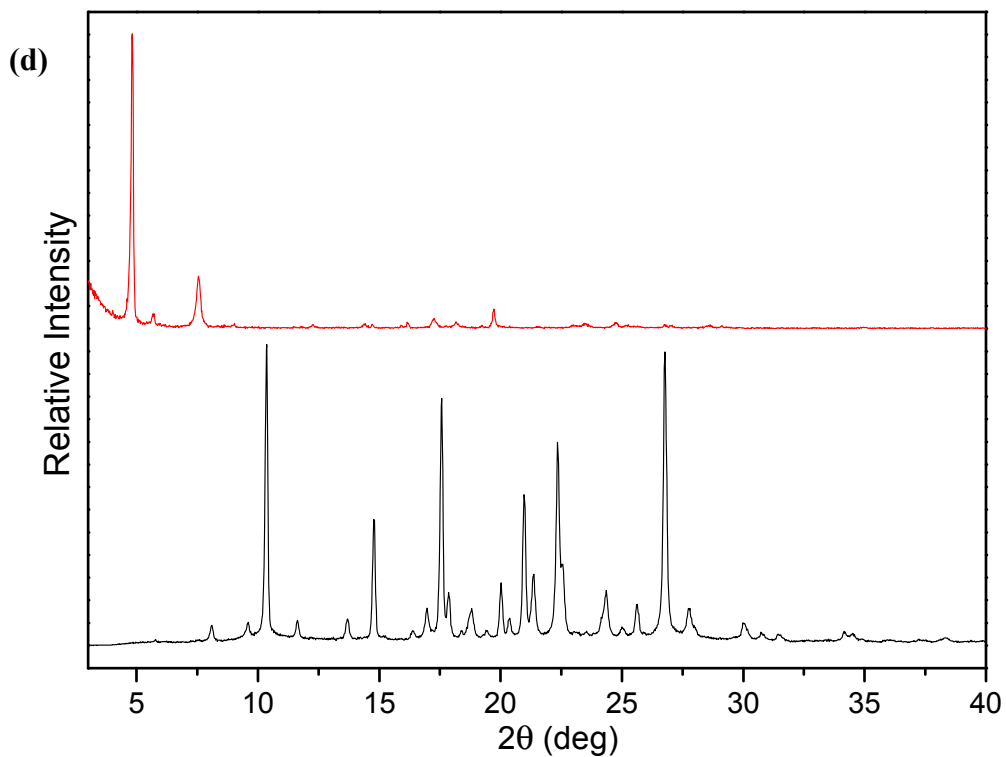


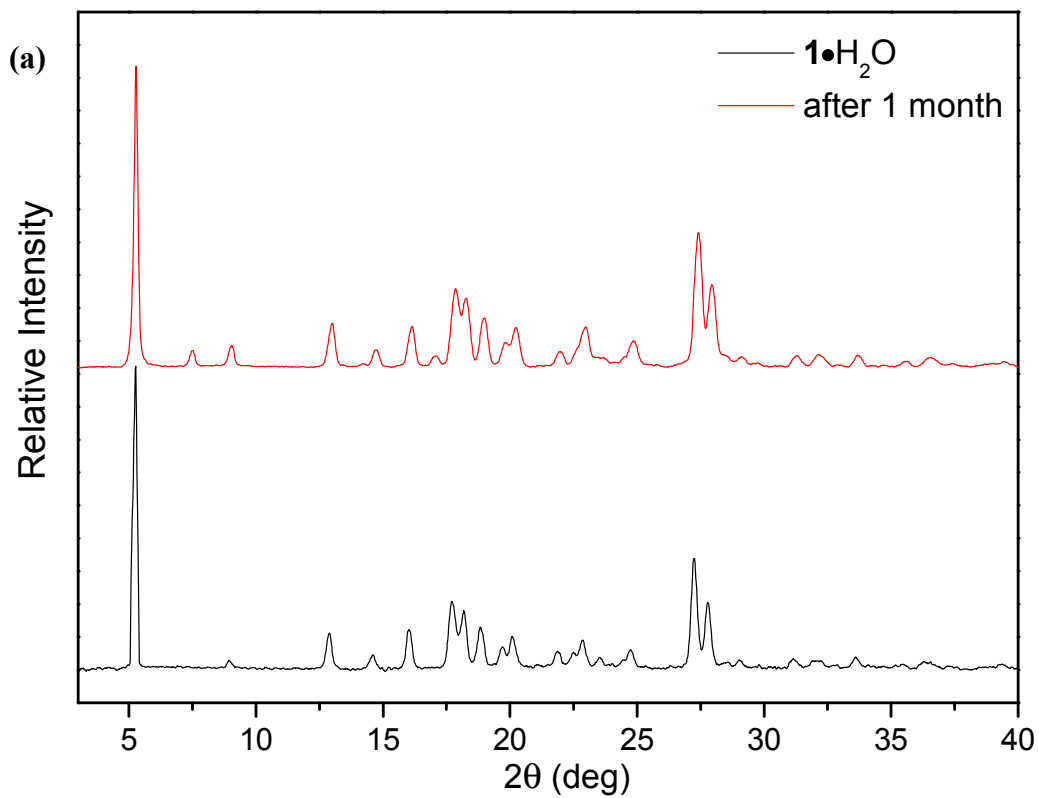
Fig. S3 Dissolution profiles for 1·H<sub>2</sub>O and 2-4 in 0.1 M HCl for 72 h.



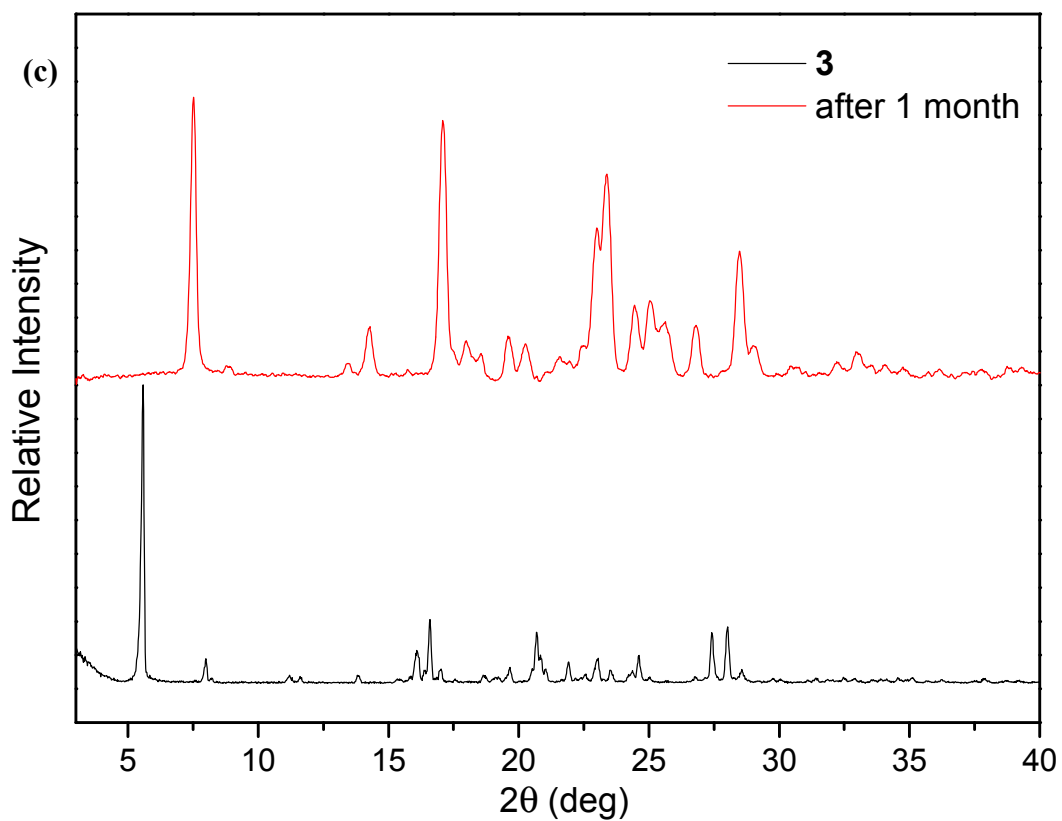
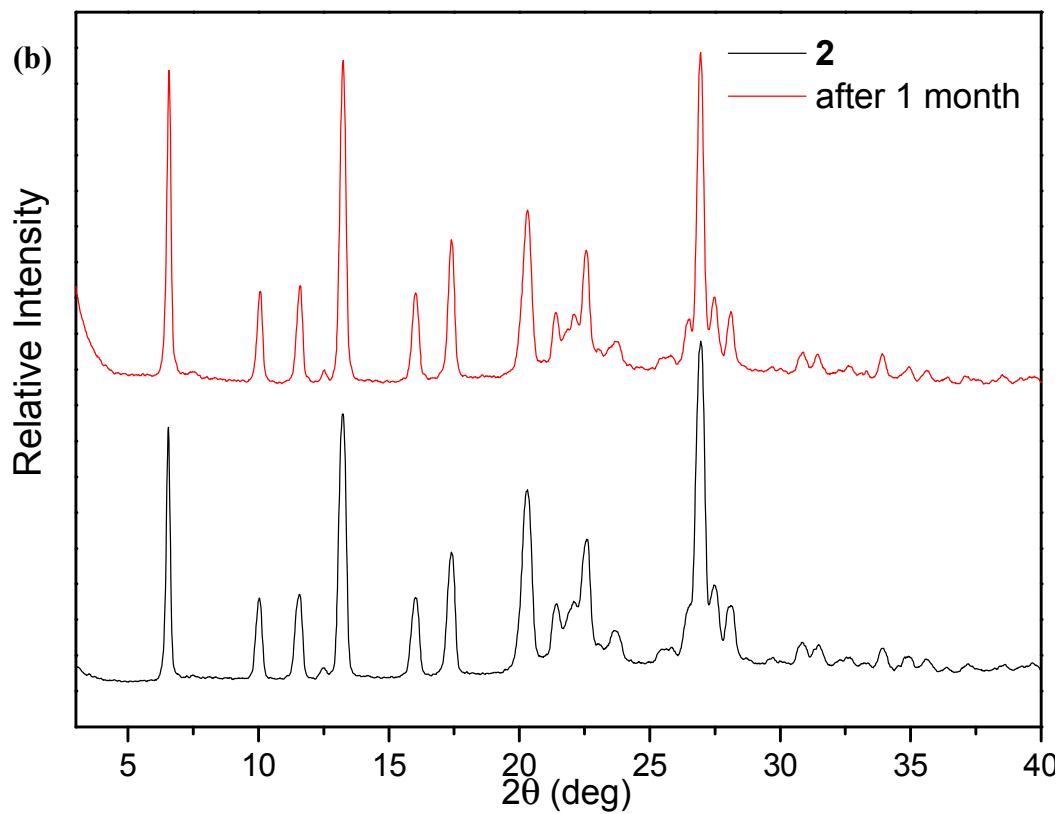


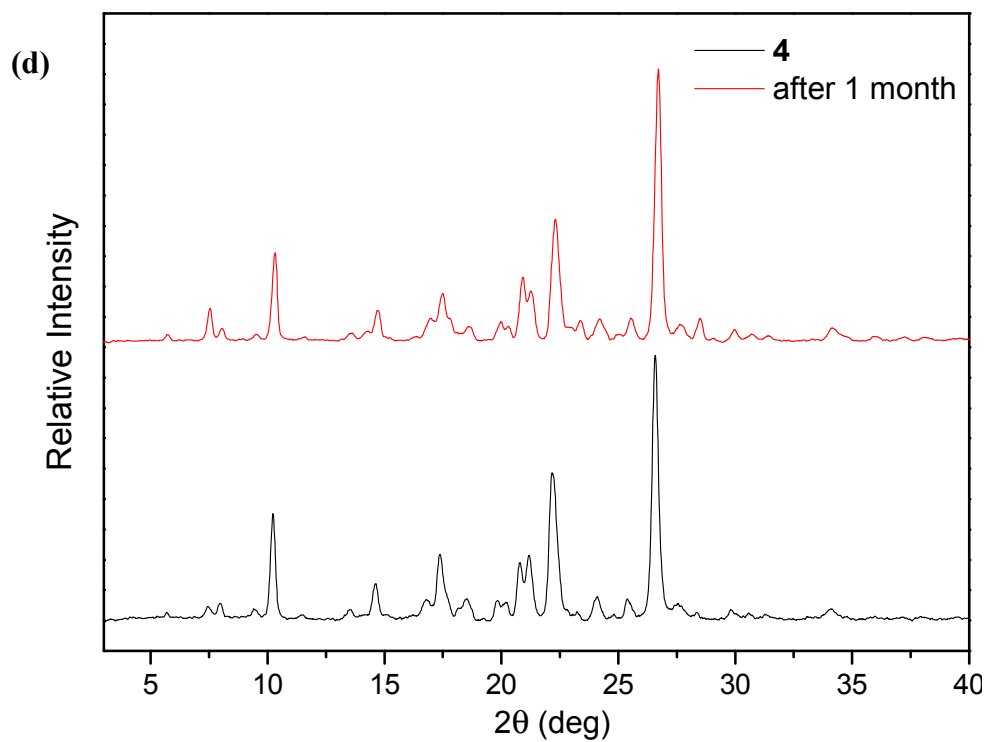


**Fig. S4** PXR D patterns before (black patterns) and after 72 h (red patterns) dissolution experiments in 0.1 M HCl for (a)  $1 \cdot H_2O$ , (b) **2**, (c) **3**, and (d) **4**.









**Fig. S5** PXRD patterns before (black patterns) and after (red patterns) one month's stability tests at 40 °C/75% RH for (a) **1**·H<sub>2</sub>O, (b) **2**, (c) **3**, and (d) **4**.