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ESI

Mutual transformation between crystalline phases and

dielectric properties of coordination polymers with formula

of $[Cd(N-methylimidazole)_2(H_2O)_x(glutarate)] \cdot nH_2O$ (x = 0

or 1; n = 0 or 4)

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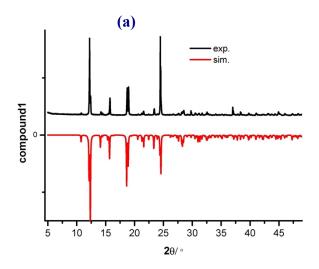
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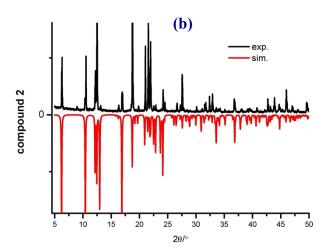
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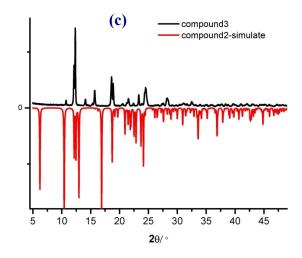
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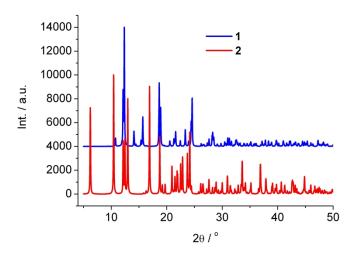


Figure S1 PXRD profiles of (a) the experimental and the simulated patterns for 1 (b) the experimental and the simulated patterns for 2 (c) the experimental pattern for 3 and the simulated pattern for 2 (d) the simulated patterns for 1 and 2 where the differences are obvious between the simulated PXRD patterns of 1 and 2.

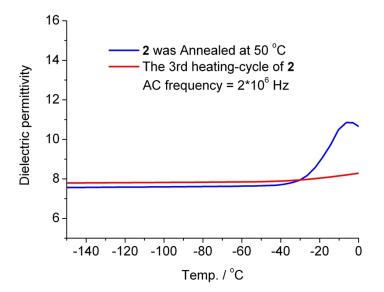


Figure S2 Temperature-dependent dielectric constants for 3 obtained from the annealed at 50 °C and the swept by N_2 flow, respectively, where the slight difference of two plots between -30 and 0 °C arises from the difference of a little amount of water in the samples.