

Supplementary

Transition Metal Coordination Polymers with Trans-1,4-Cyclohexanedicarboxylate: Acidity-Controlled Synthesis, Structures and Properties

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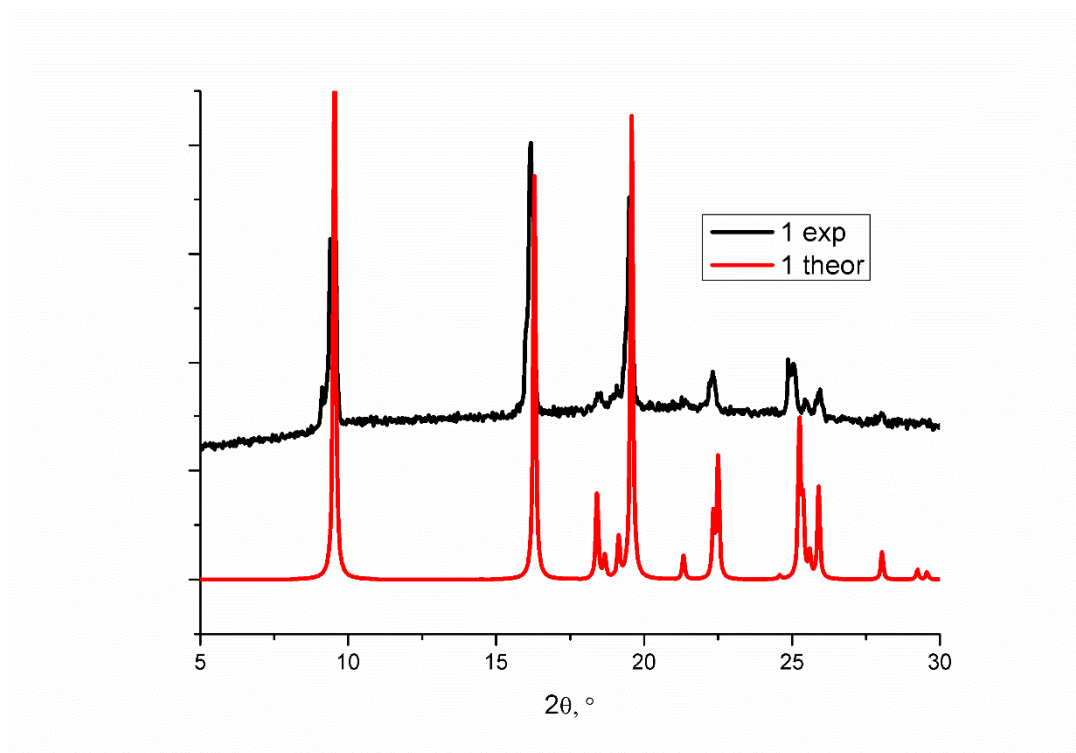


Figure S1. PXRD pattern of the synthesized sample of **1** (black) in comparison with the theoretical one (red).

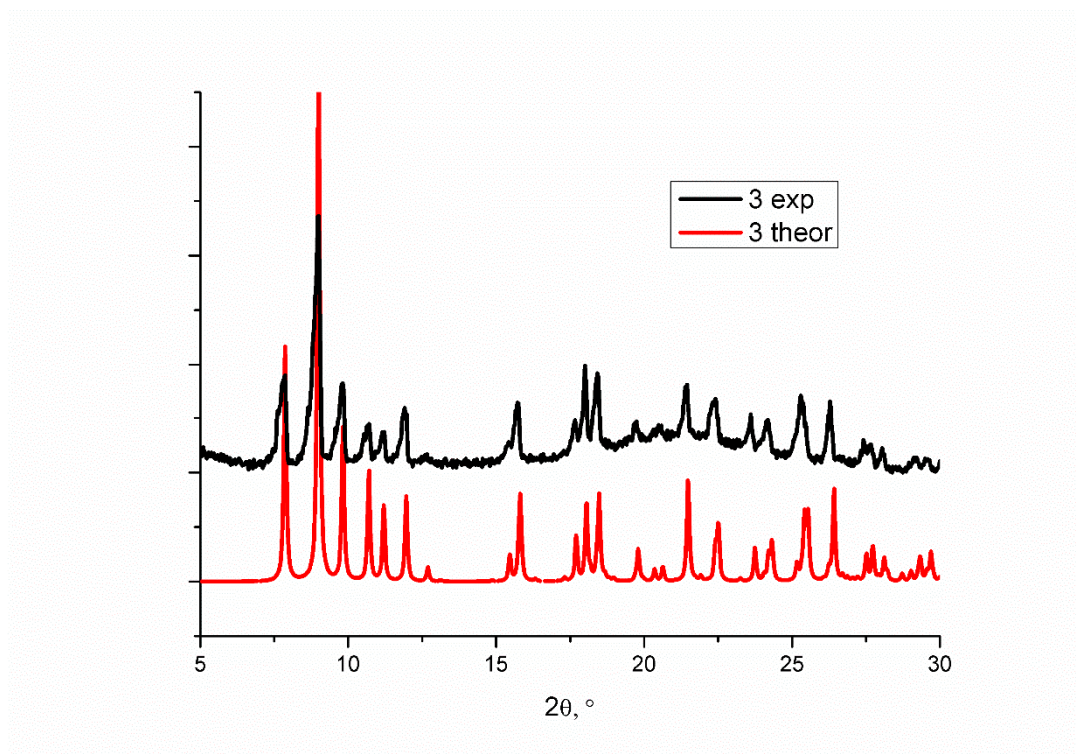


Figure S2. PXRD pattern of the synthesized sample of **3** (black) in comparison with the theoretical one (red).

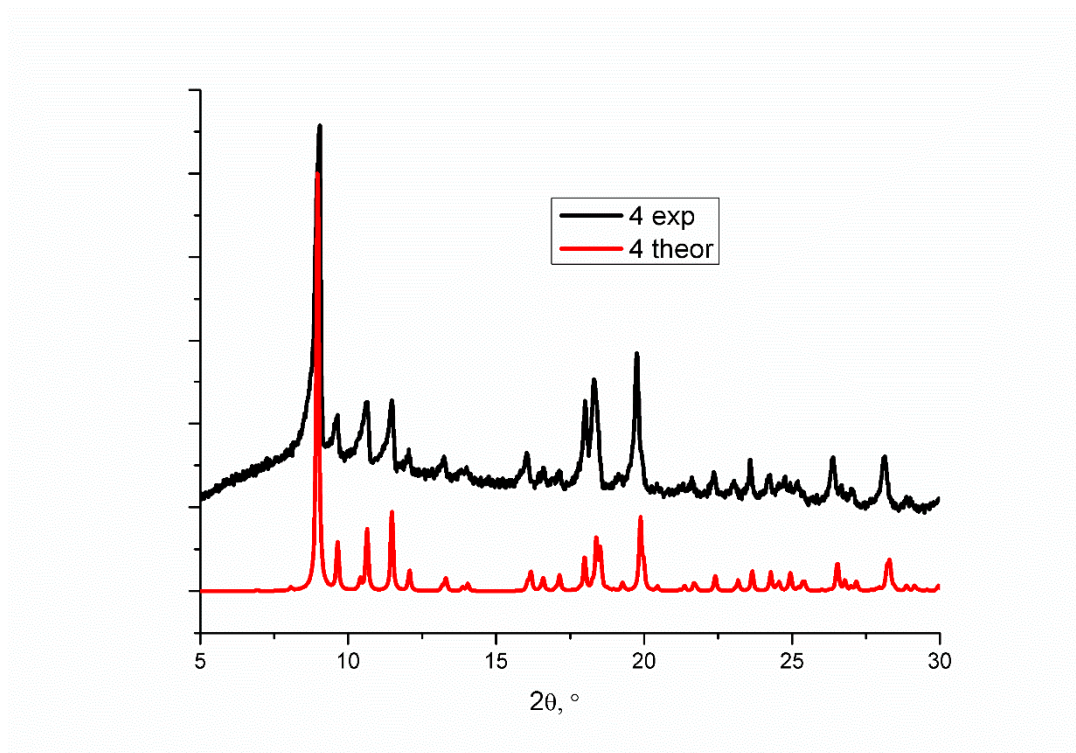


Figure S3. PXRD pattern of the synthesized sample of **4** (black) in comparison with the theoretical one (red).

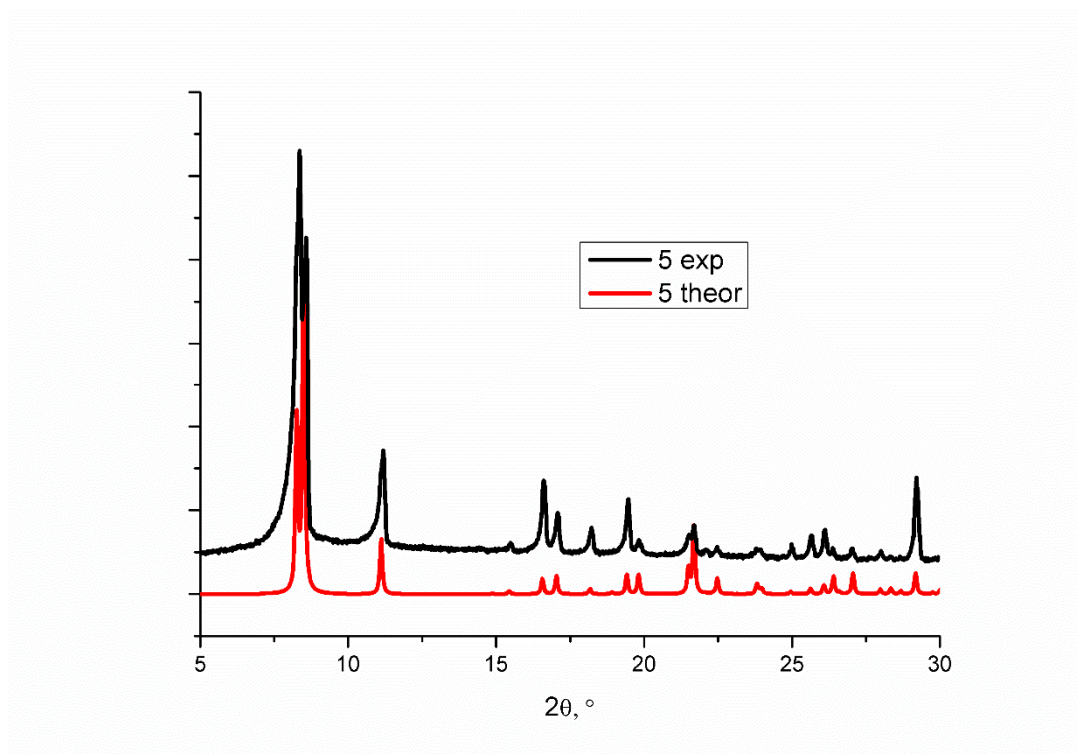


Figure S4. PXRD pattern of the synthesized sample of **5** (black) in comparison with the theoretical one (red).

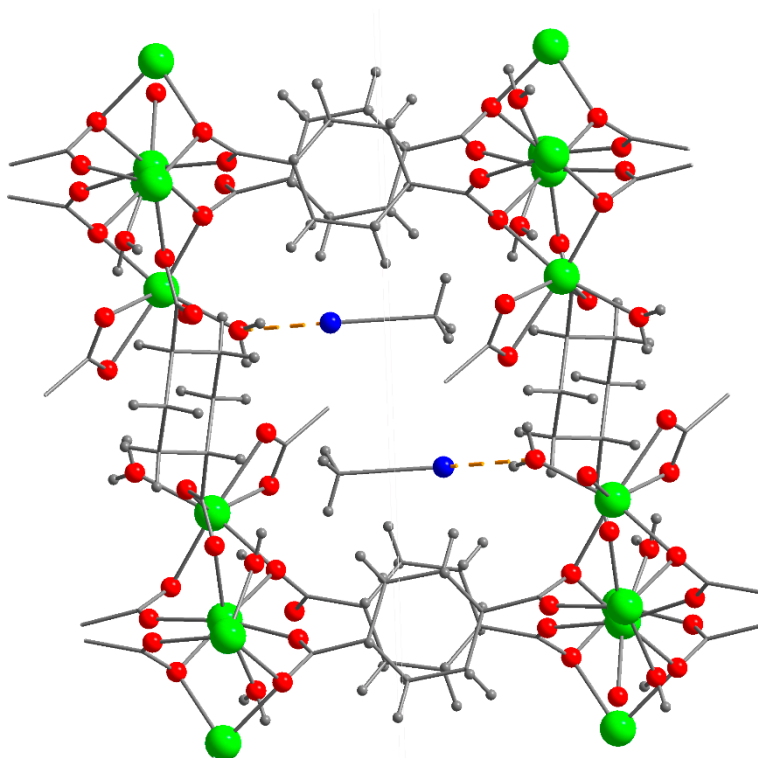


Figure S5. Location of guest CH_3CN molecules in the cage of **3**.

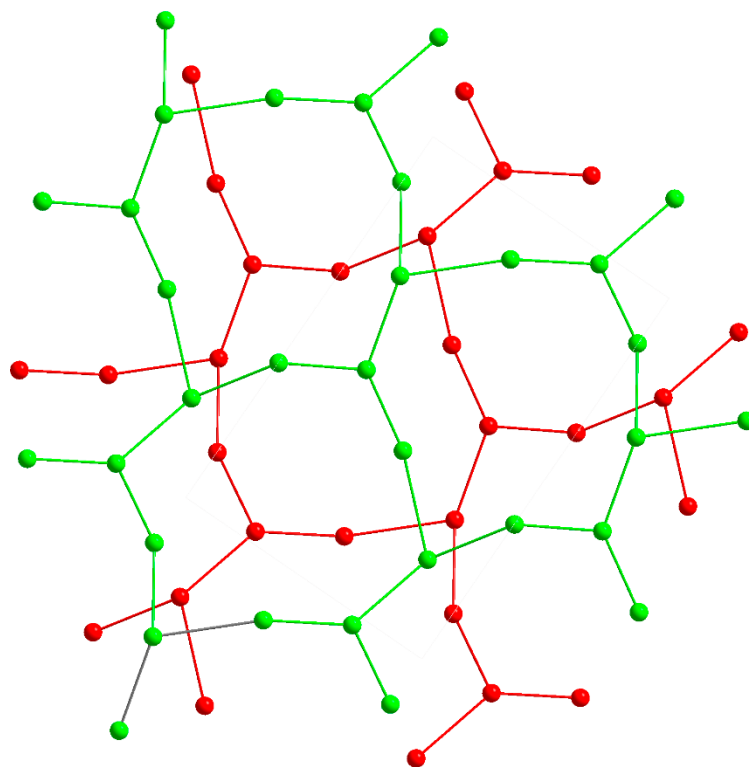


Figure S6. Interconnection between AB layers into 3D framework in **4**.

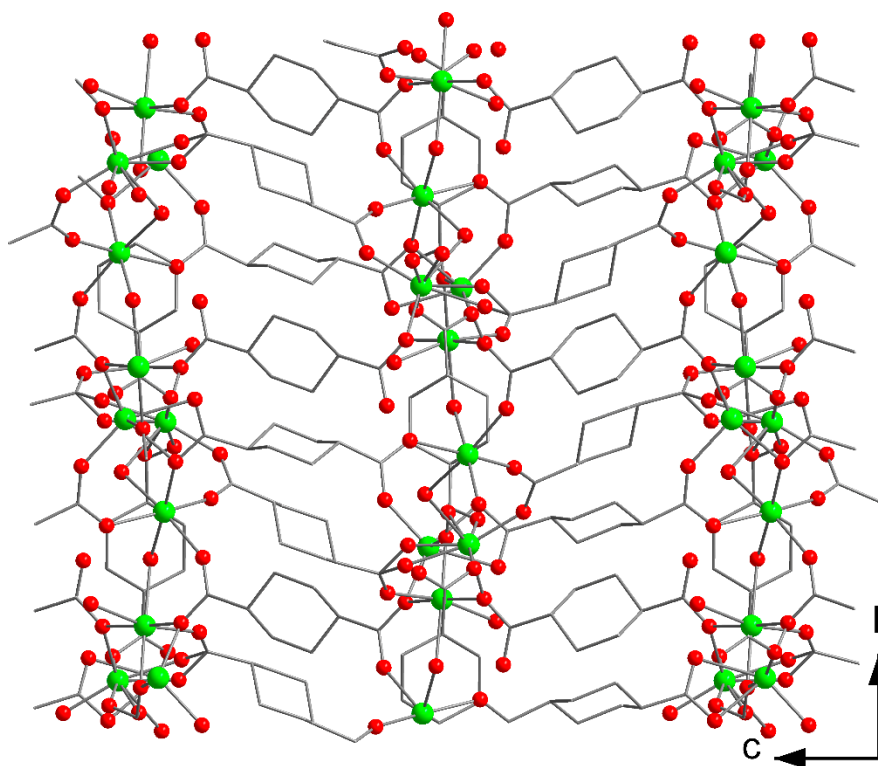


Figure S7. The schematic illustration of AB-packing in **4**.

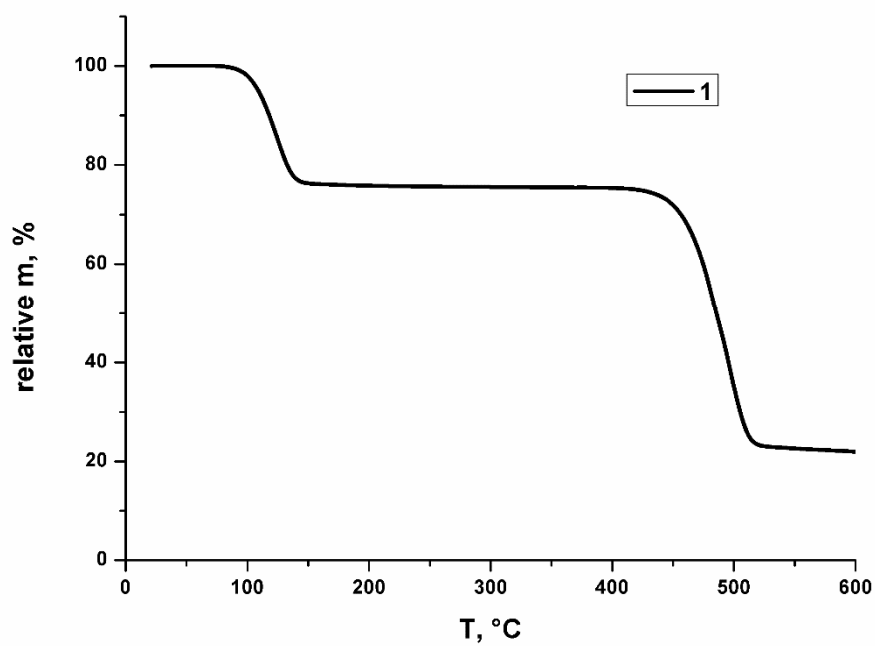


Figure S8. TG plot for the compound 1.

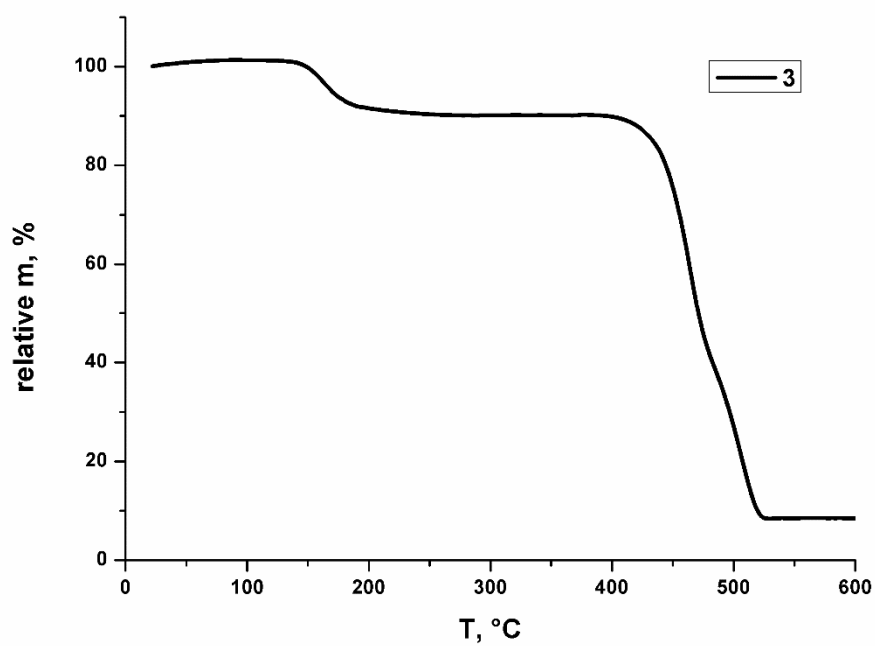


Figure S9. TG plot for the compound 3.

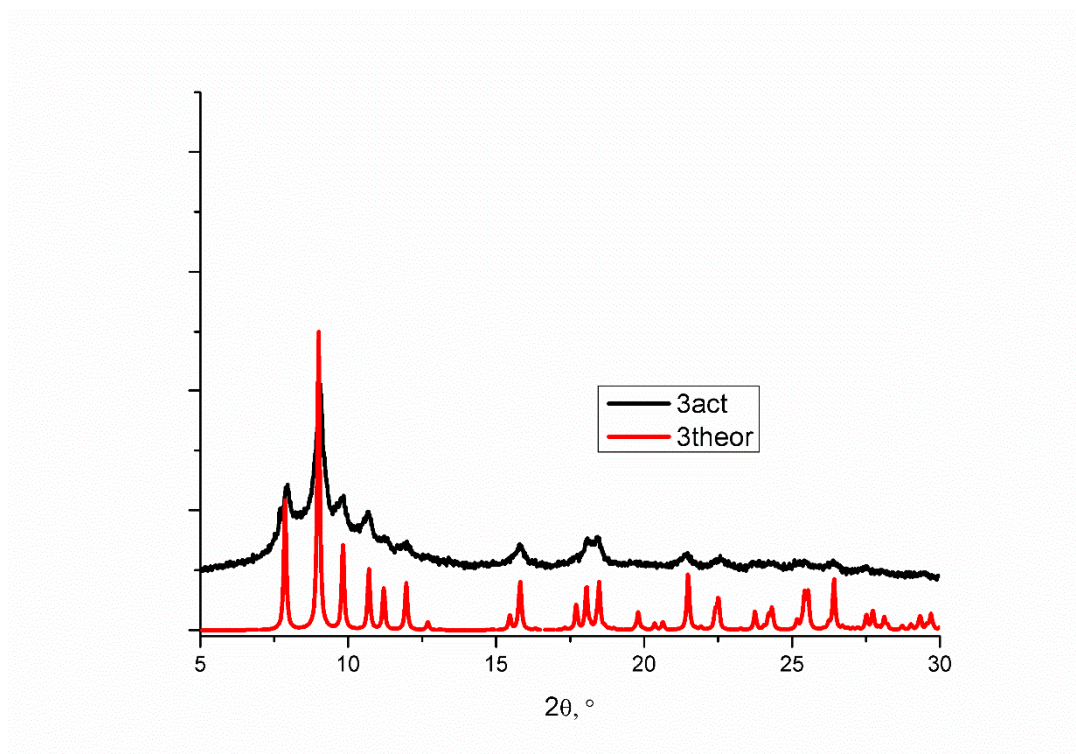


Figure S10. PXRD pattern of the activated sample of **3** (black) in comparison with the theoretical for **3** (red).

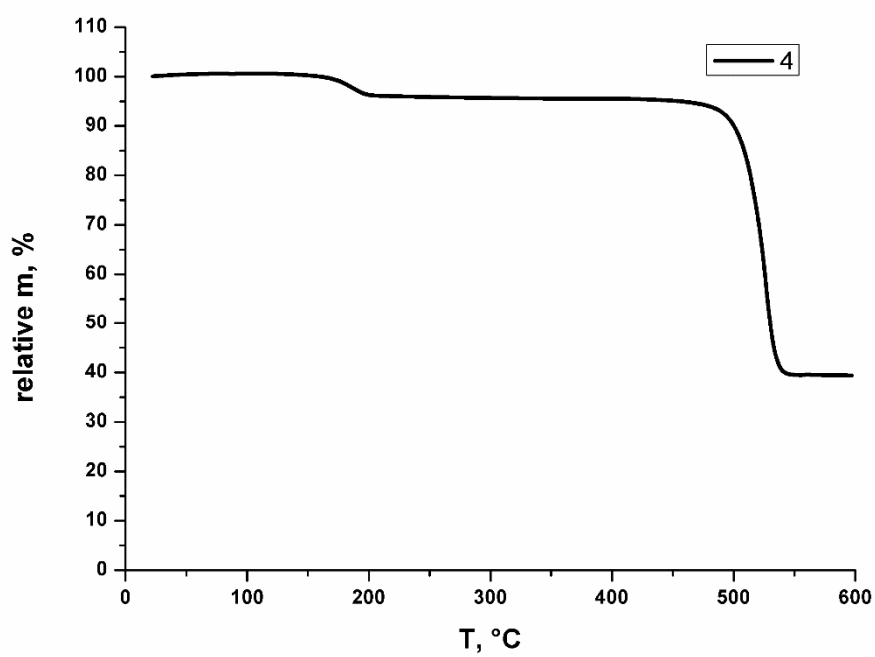


Figure S11. TG plot for the compound **4**.

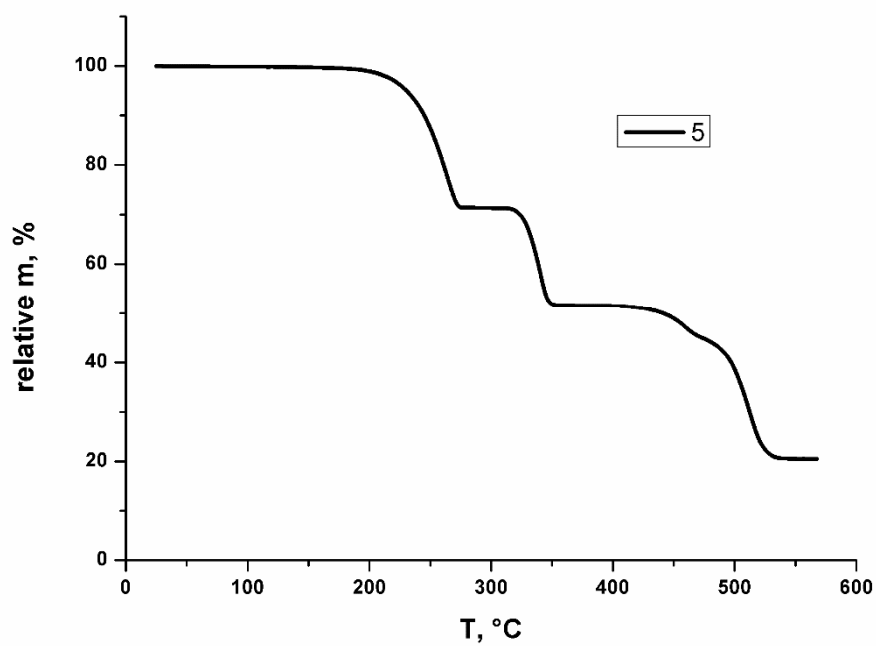


Figure S12. TG plot for the compound 5.

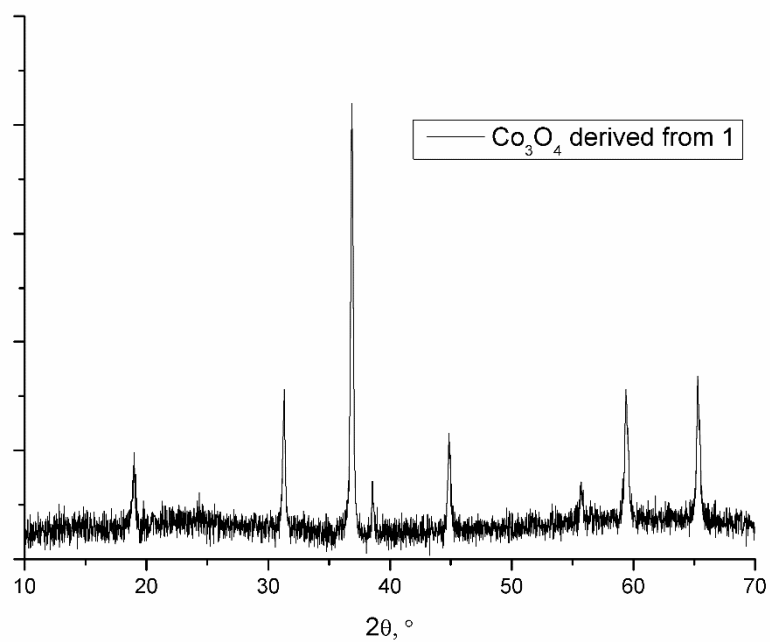


Figure S13. PXRD pattern of the Co_3O_4 sample derived from 1 by the oxidative thermolysis.

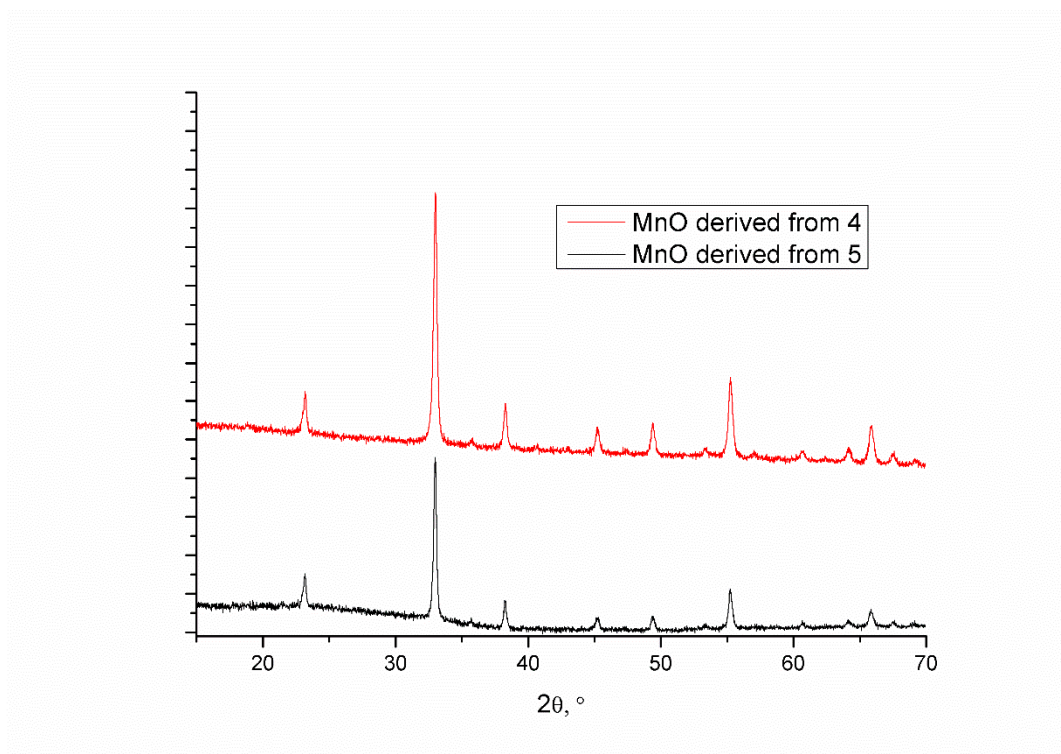


Figure S14. PXRD patterns of the MnO samples derived from **4** (red) and **5** (black) by the oxidative thermolysis.

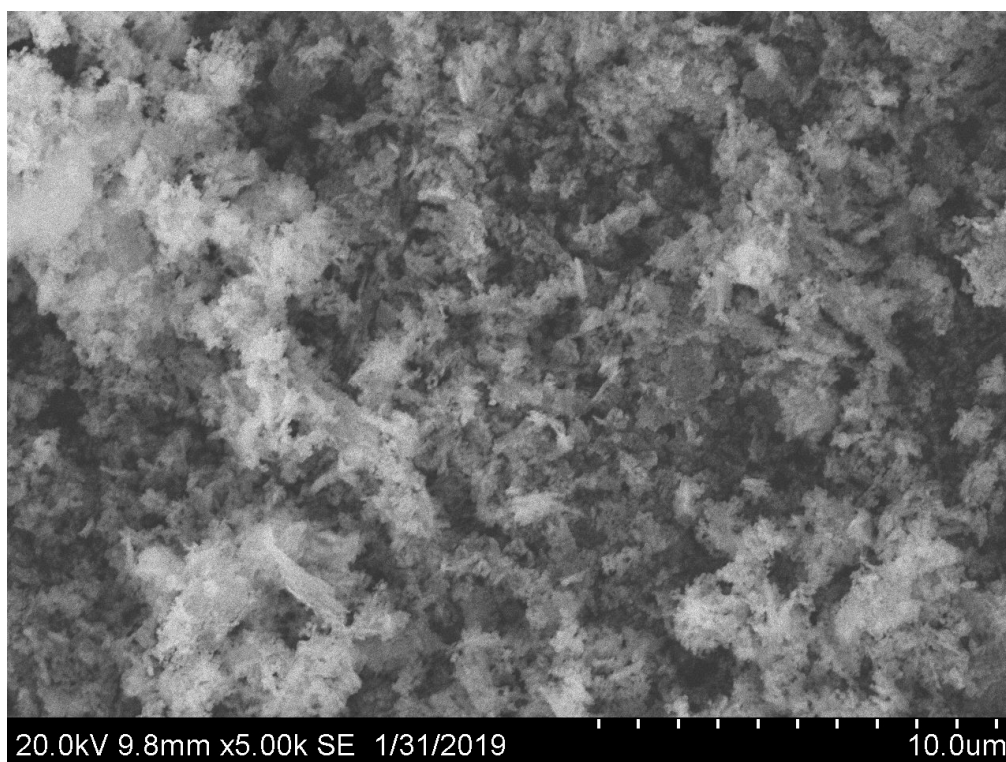


Figure S15. SEM image of Co_3O_4 sample obtained by the oxidative thermolysis of **1**.

