Supplementary Materials: Catalytic Performance of a New 1D Cu(II) Coordination Polymer {Cu(NO$_3$)(H$_2$O)}(HTae)(4,4′-Bpy) for Knoevenagel Condensation

Edurne S. Larrea, Roberto Fernández de Luis and María I. Arriortua

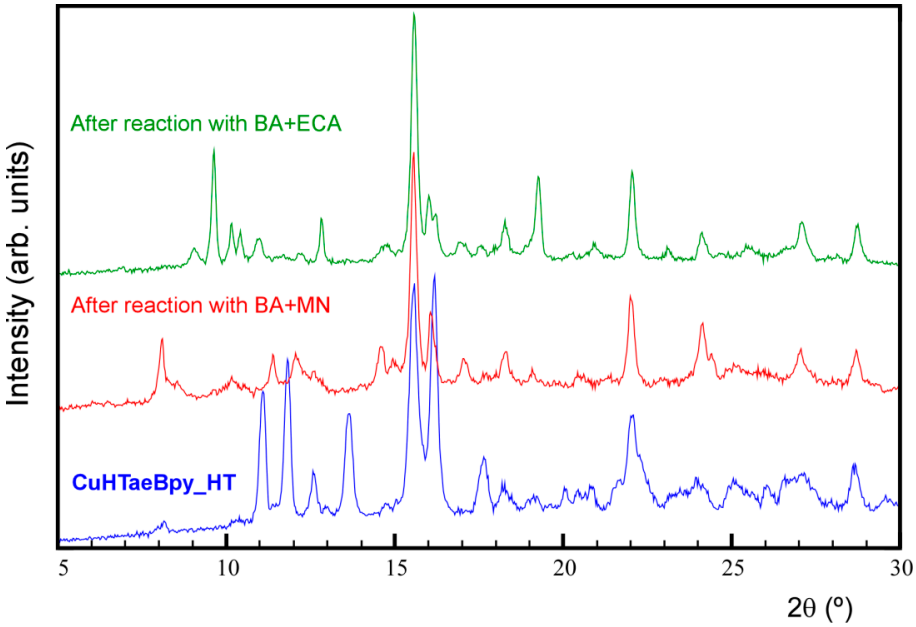

Figure S1. X-ray diffractograms of the activated **CuHTaeBpy_HT** catalyst before the reaction, after reacting with benzaldehyde (BA) and malononitrile (MN), and after reacting with benzaldehyde (BA) and ethyl cyanoacetate (ECA).

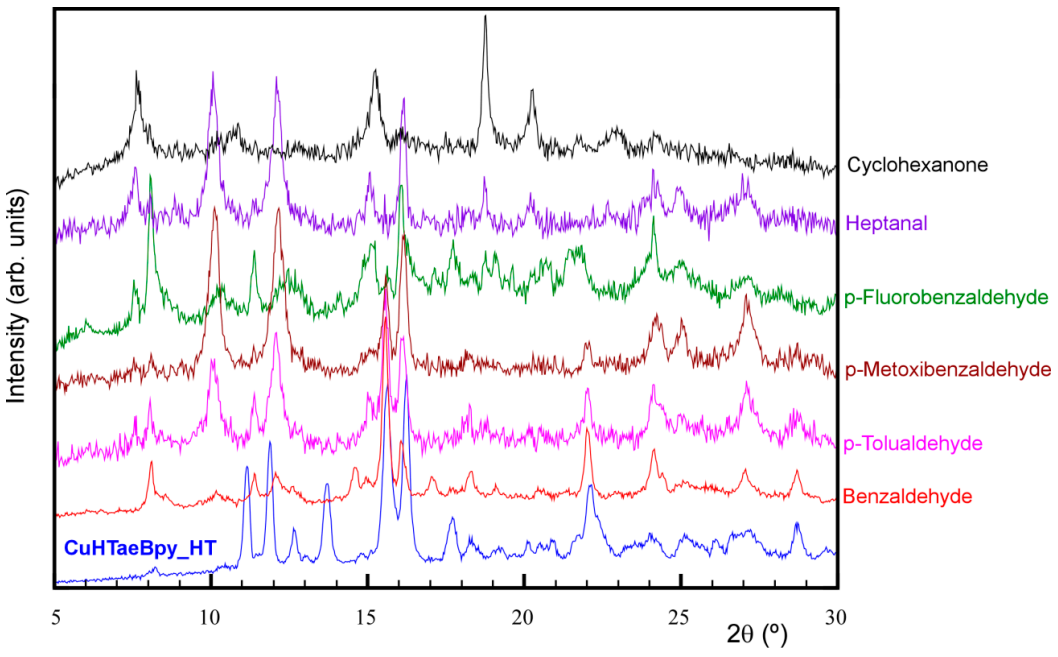

Figure S2. X-ray diffraction patterns of the activated catalyst, **CuHTaeBpy_HT**, and after reacting with various substrates and MN.

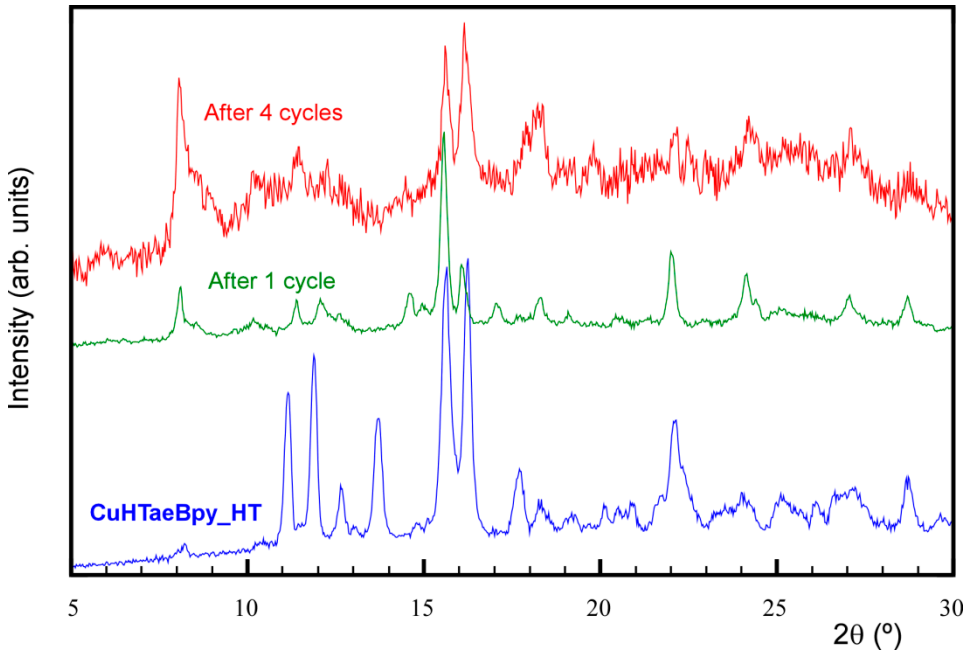

Figure S3. X-ray diffraction patterns of the activated catalyst, **CuHTaeBpy_HT**, and after 1 cycle of reaction and after 4 cycles of reaction of BA and MN.

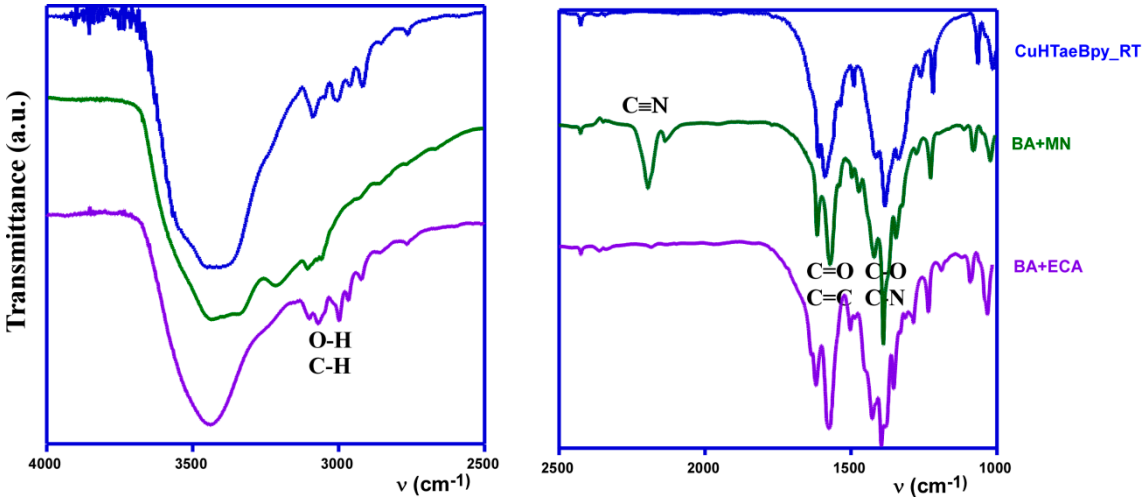

Figure S4. IR spectra of the **CuHTaeBpy_RT** preactivated catalyst, the catalyst after reacting with benzaldehyde (BA) and malononitrile (MN), and after reacting with benzaldehyde (BA) and ethyl cyanoacetate (ECA).

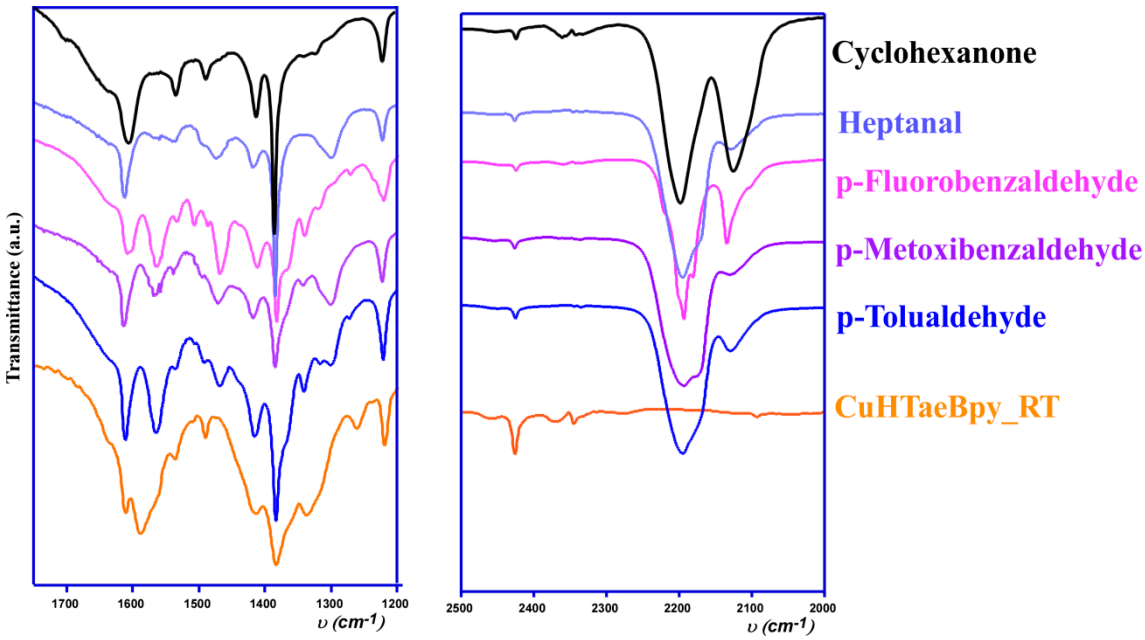

Figure S5. IR spectra of the **CuHTaeBpy_RT** preactivated catalyst, and the catalyst after reacting with various substrates and malononitrile.

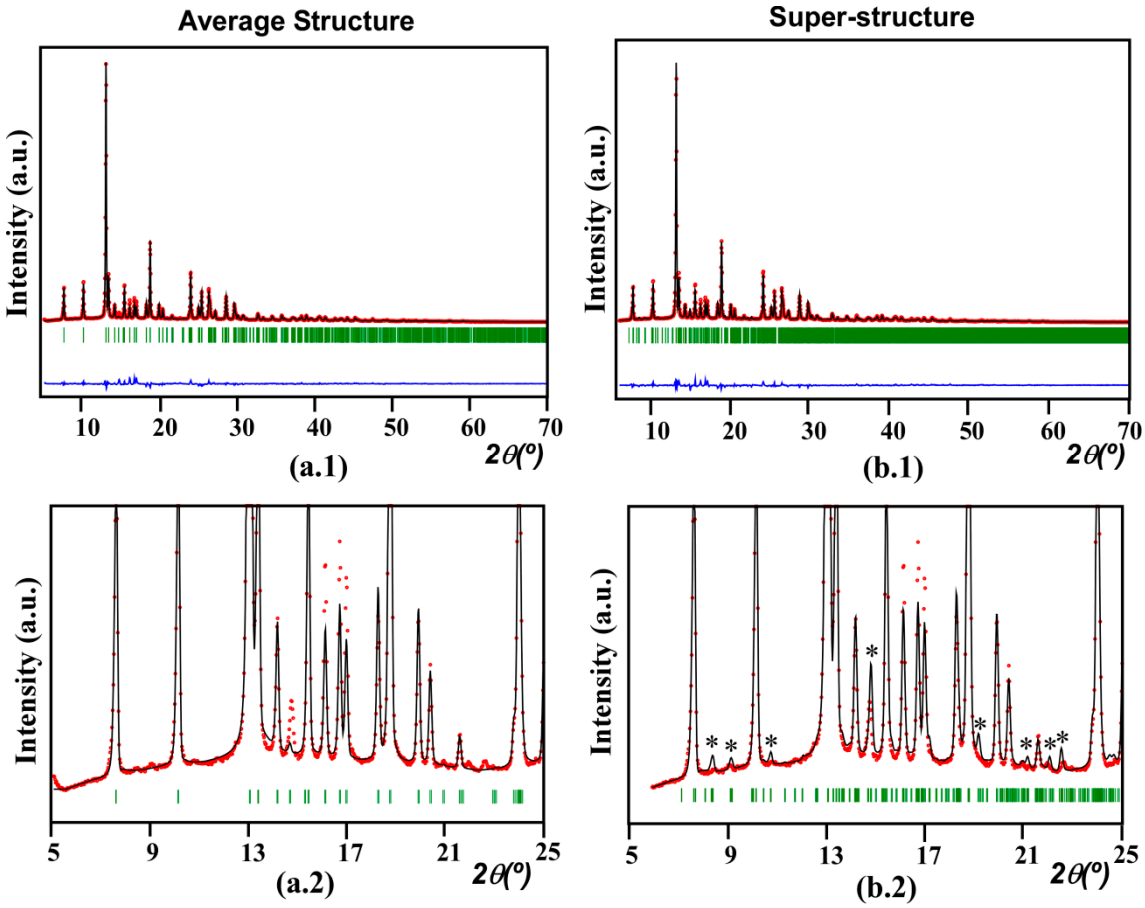

Figure S6. Rietveld refinements of the {Cu(NO3)(H2O)}(HTae)(4,4′-Bpy) with the average structural model (**a.1**) and commensurate structural model (**b.1**). Details of the refinement of the satellite peaks due to the super-structure with the average structural model (**a.2**) and with the commensurate structural model (**b.2**).