

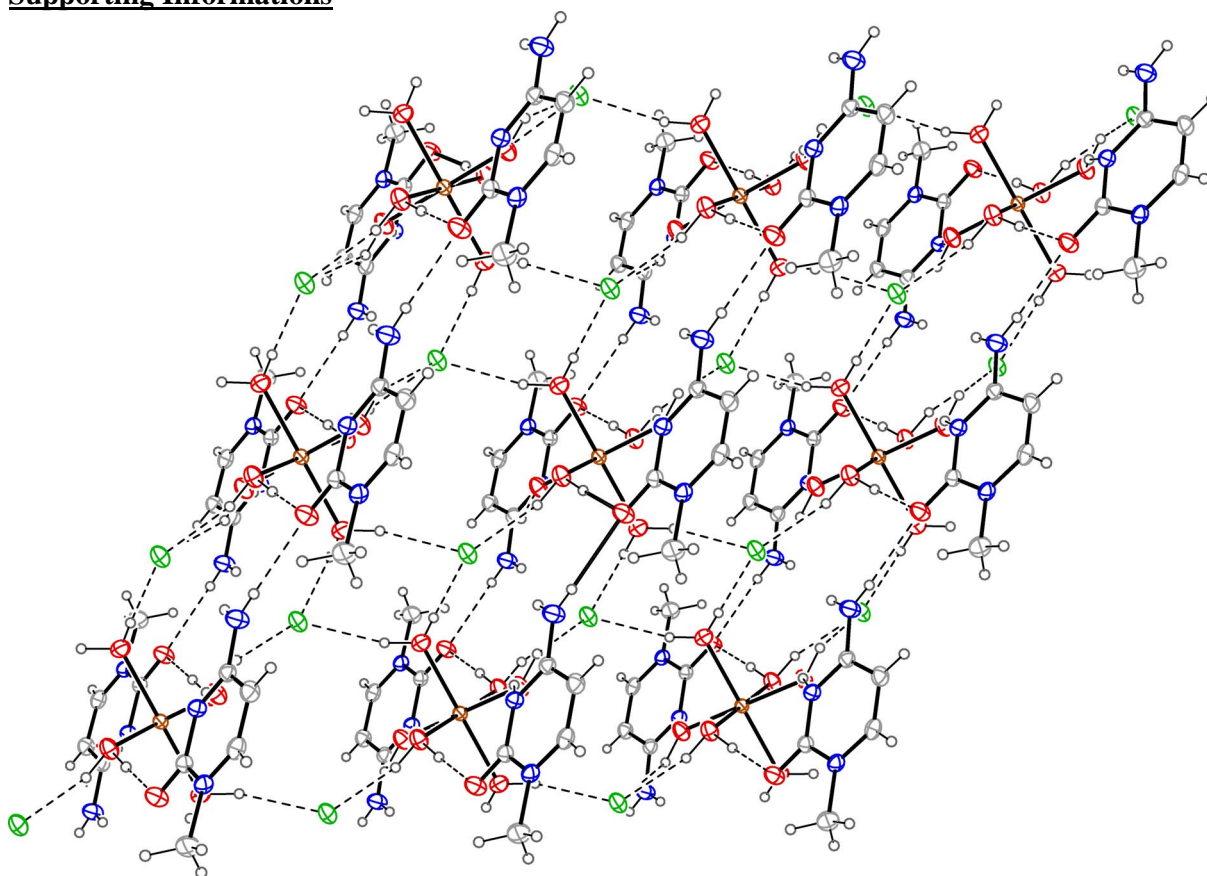
**Supramolecular Assemblies of Nucleobase Derivative 1-Mecyt with Mg(II) and Ni(II) and Solid –State Transformation of Ni(II) Phase: A Comprehensive Evidence of Their Different Reactivity Towards 1-Mecyt. [1-Mecyt = 1-Methylcytosine].**

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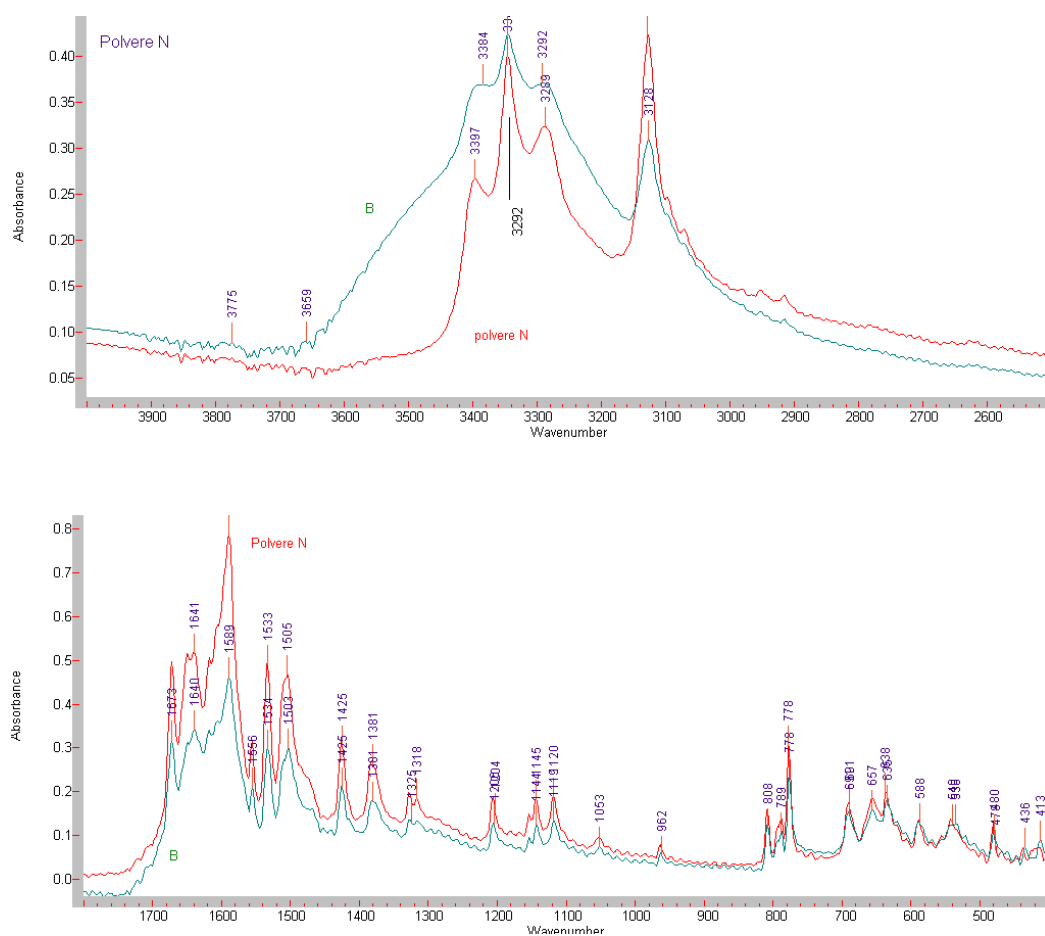
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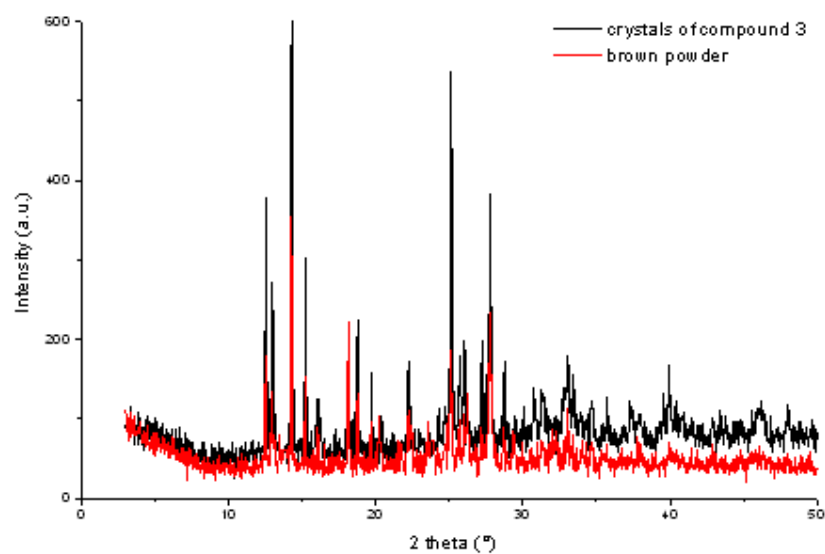
**Supporting Informations**



**Figure S1.** Perspective view along  $z$  axes of the 2D H-bonding net of **1** and **2** showing layers developing along  $xy$ .



**Figure S2.** FT-IR Spectra of crystals of **3** (B) and brown powder (N).



**Figure S3.** X-ray powder diffraction profiles (Cu- $K_{\alpha}$ ) of crystals of compound **3** (black color) and brown powder (red color).