

Supplementary Materials

Copper and manganese based layered hybrid organic-inorganic compounds with polymorphic transitions as energy storage materials

1 X-Ray Difracction supplementary results

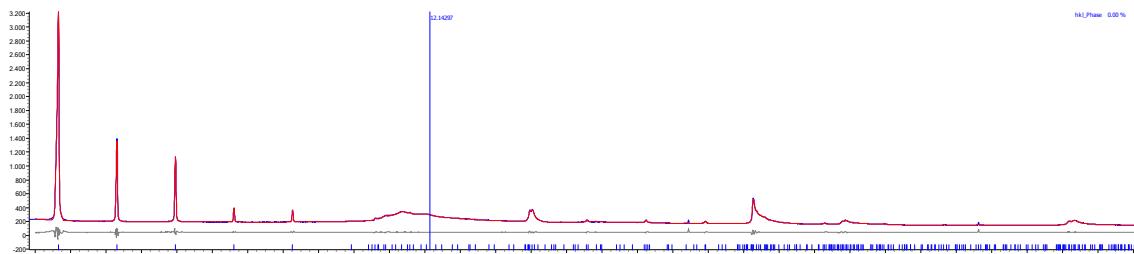


Figure S 1 Pattern matching Pawley fit plot of MnC12. Agreement factors: $R_{wp} = 4.33\%$, $R_p = 2.57\%$. The plot shows the experimental powder XRD profile (blue solid line), the calculated powder XRD profile (red solid line), and the difference profile (grey, lower line). Blue tick marks indicate peak positions

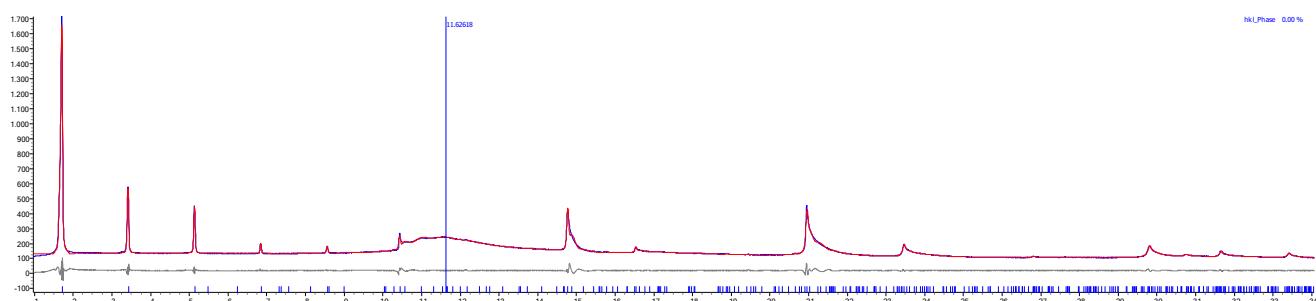


Figure S 2 Pattern matching Pawley fit plot of CuC12. Agreement factors: $R_{wp} = 4.91\%$, $R_p = 2.97\%$. The plot shows the experimental powder XRD profile (blue solid line), the calculated powder XRD profile (red solid line), and the difference profile (grey, lower line). Blue tick marks indicate peak positions.

2 Nuclear magnetic resonance supplementary results

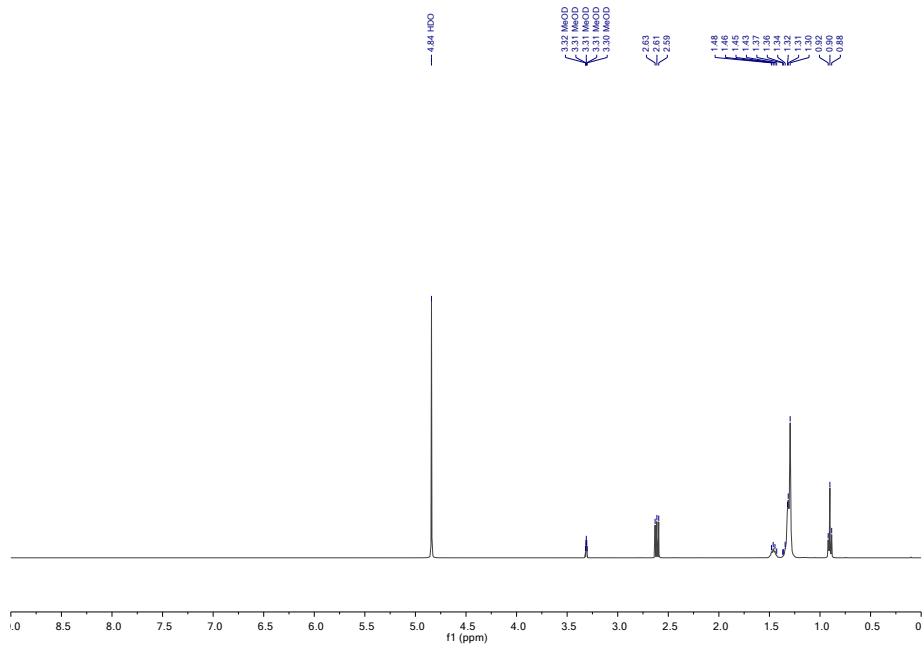


Figure S 3 ^1H NMR $\text{C}_{12}\text{H}_{27}\text{N}$.

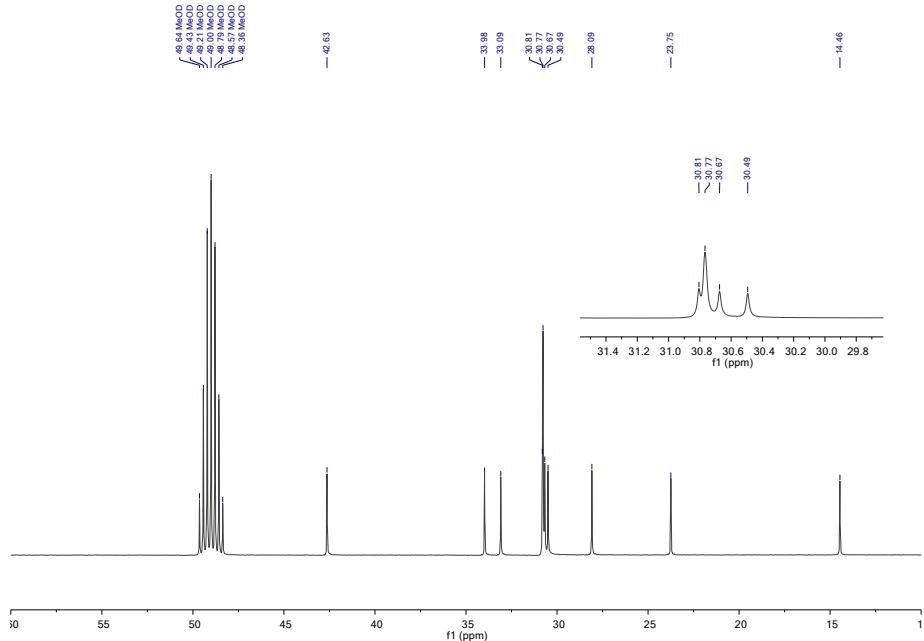
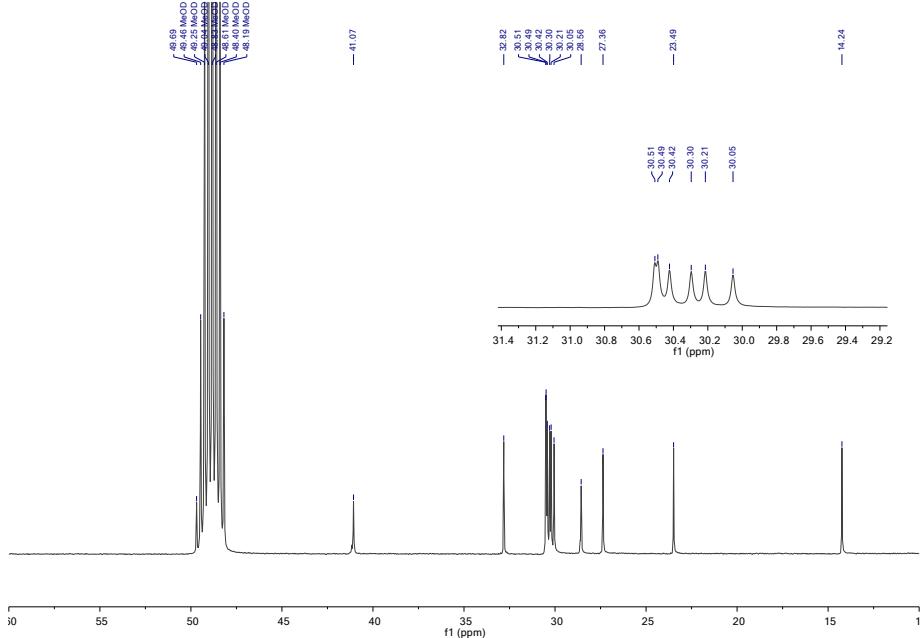
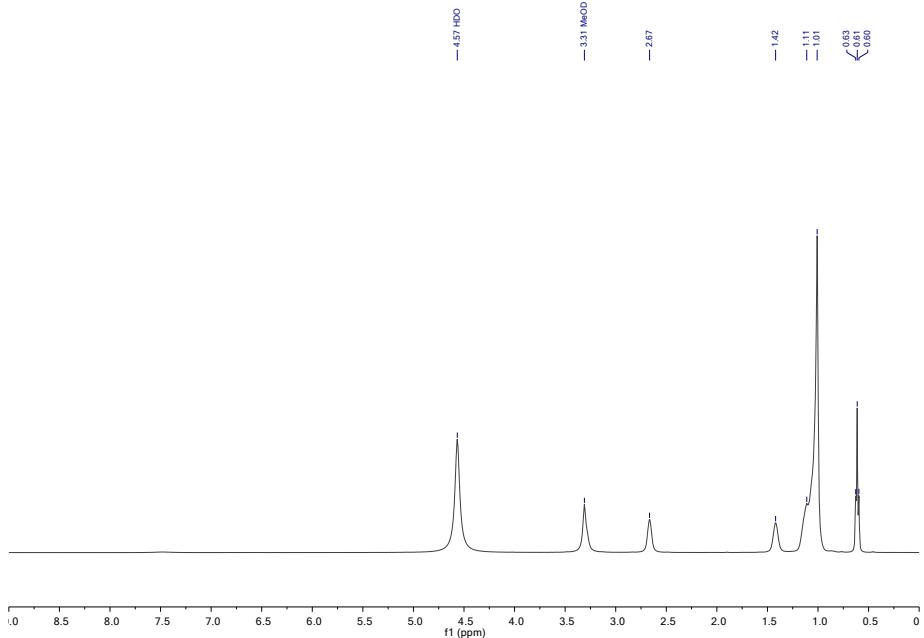


Figure S 4 ^{13}C NMR $\text{C}_{12}\text{H}_{27}\text{N}$.



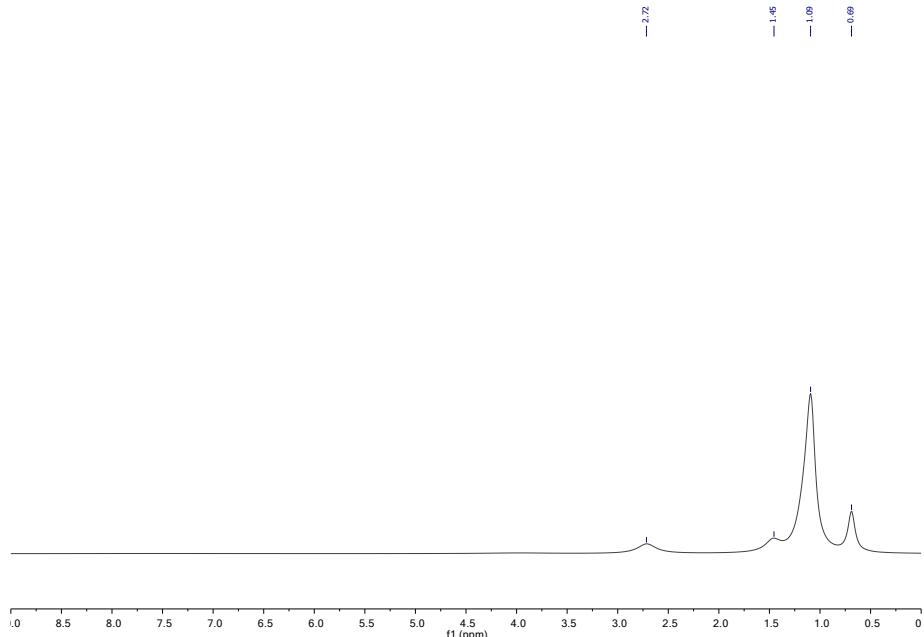


Figure S7 1H NMR MnCl₂.

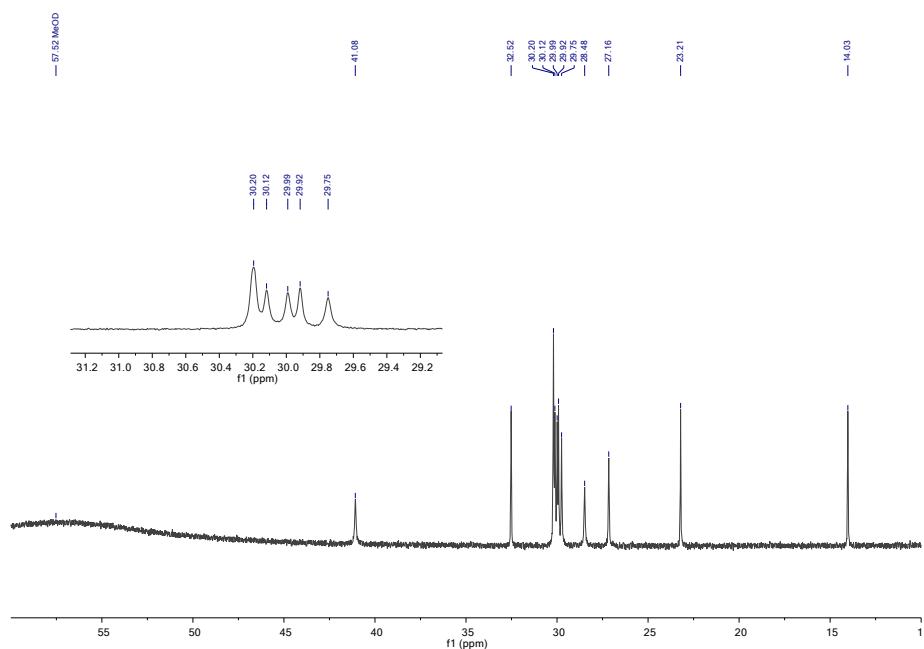


Figure S8 ^{13}C NMR MnC_{12} .

