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Supplementary Information

Cyano and end-to-end azido bridged 3D copper(II)-copper(I) mixed-valence coordination polymer and its transformation to copper nitride nanoparticles.

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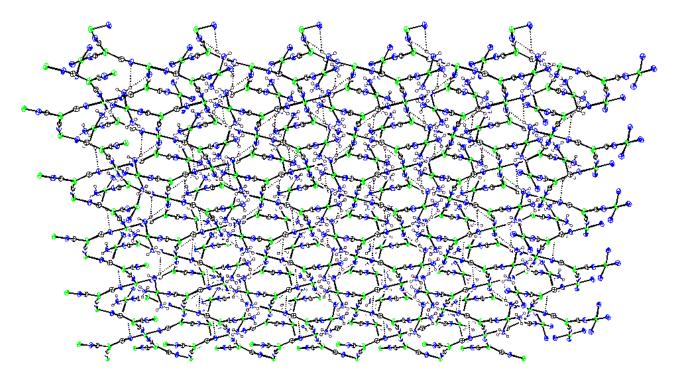


Fig. S1. H-bonding plot of **1** showing N-H···N hydrogen bond interactions in the crystal lattice.

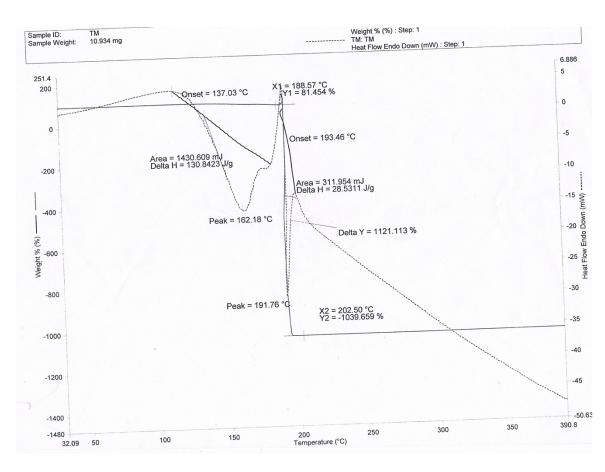


Fig. S2. TGA curve for the complex 2.

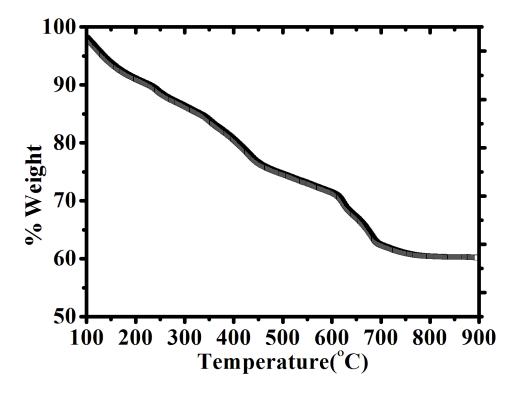


Fig. S3. TGA curve for the complex 3.

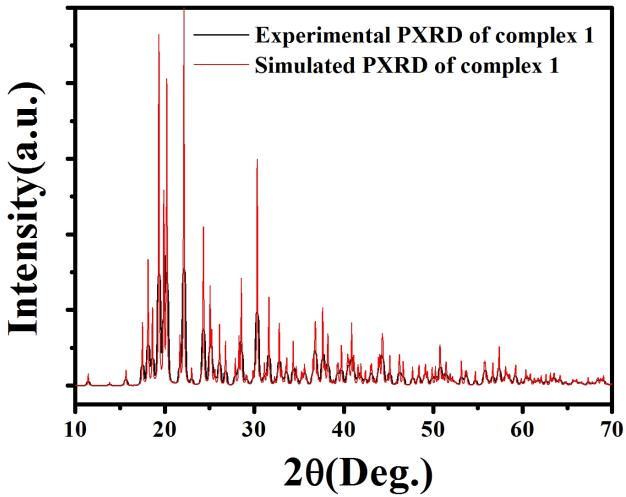


Fig. S4. Experimental and simulated powder X-ray diffractogram of complex 1.

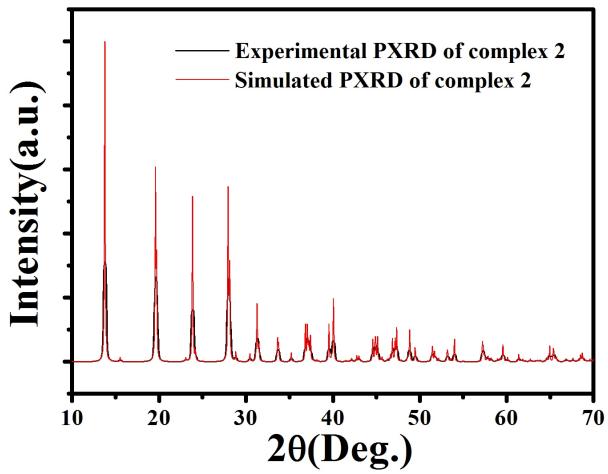


Fig. S5. Experimental and simulated powder X-ray diffractogram of complex 2.

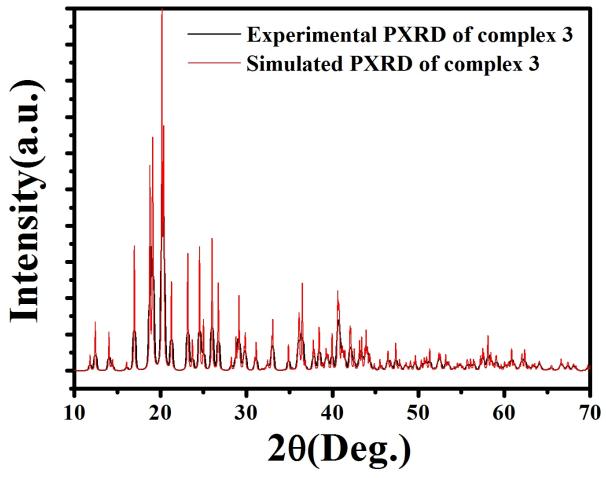


Fig. S6. Experimental and simulated powder X-ray diffractogram of complex 3.

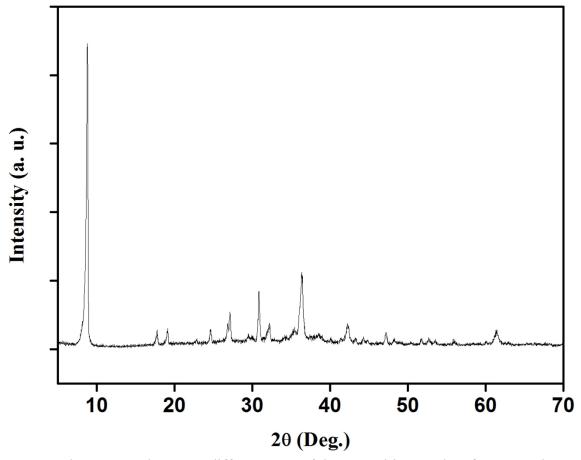


Fig. S7. Powder X-ray diffractogram of decomposition product from complex 1 at 250°C for 10h in air.

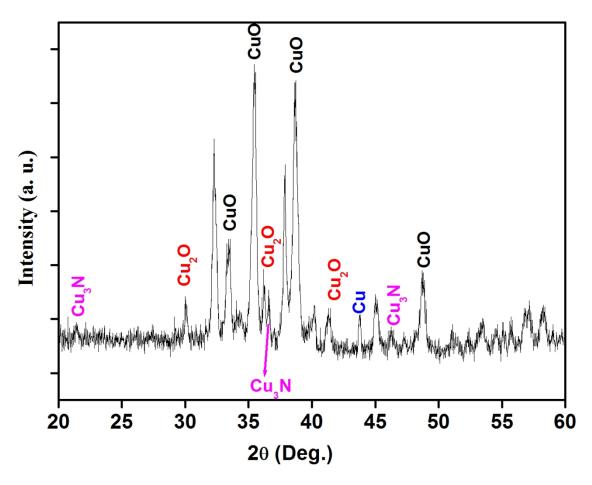


Fig. S8. Powder X-ray diffractogram of decomposition product from complex $\bf 1$ at 450°C for 10h in air.