Three-component assembly of a metal-inorganic 3D Co(II) polymer containing bridging hydrazine

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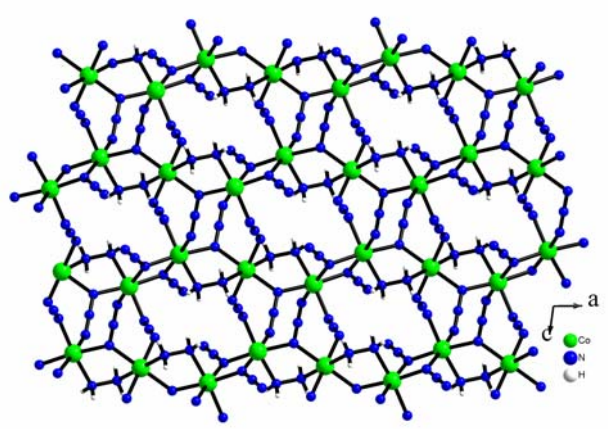

Fig. S1: View of the 2D structure of **1.**

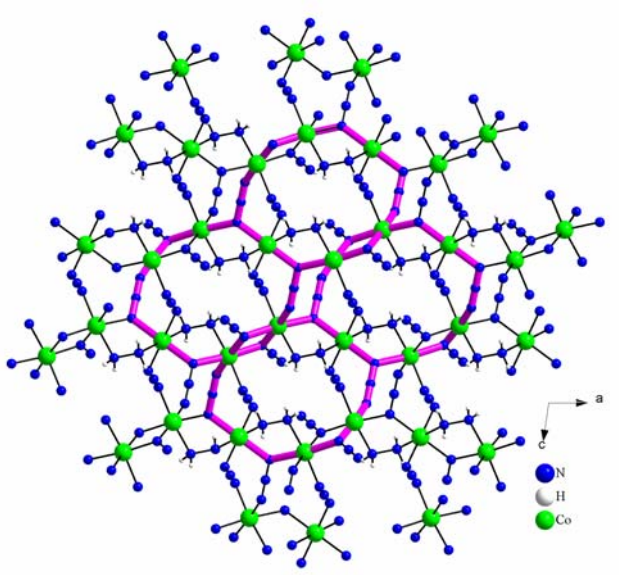

Fig. S2: 2D sheet unit in **1** showing the hexagonal Co-azide-hydrazine rings.

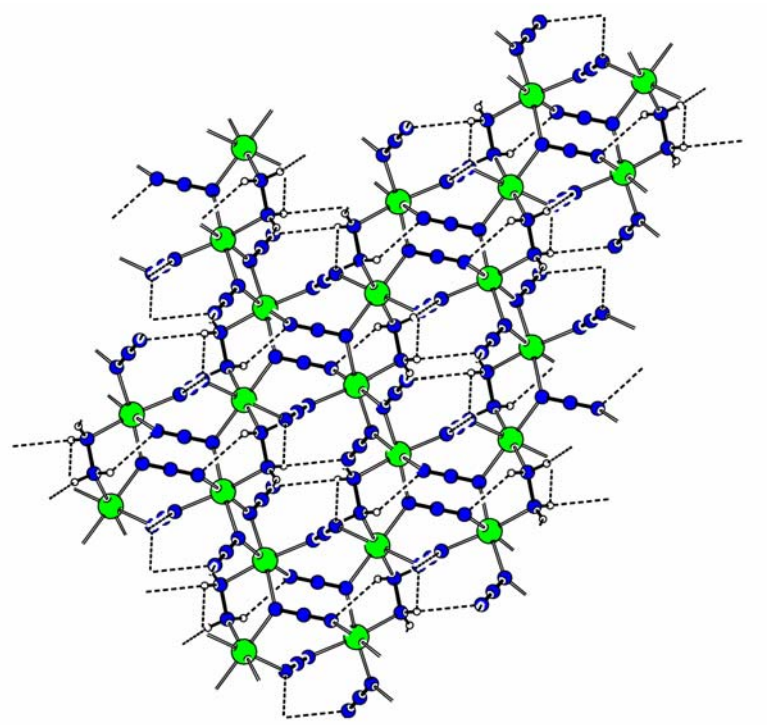

Fig. S3: View of the 3D structure showing H-bonding (shown by dotted line).

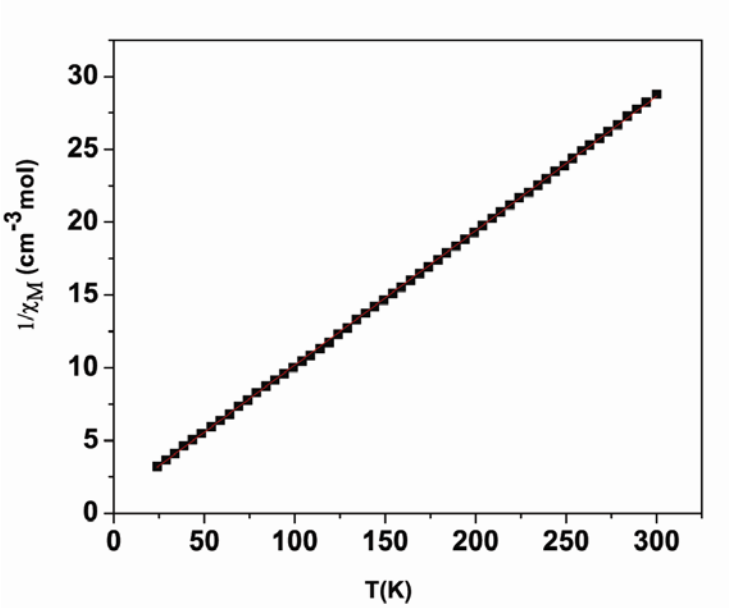

Fig. S4: Fitting of the $1/\chi_M$ vs T data in the temperature range of 60 – 300 K using Curie-Weiss equation.

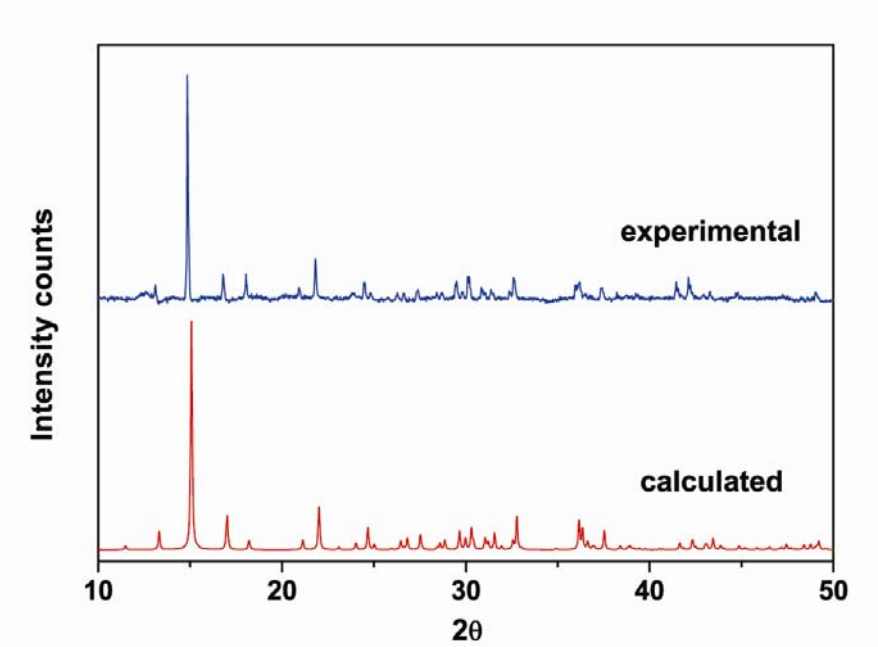

Fig. S5: Powder XRD of the complex **1** was carried out in D8 Advance X-ray diffractometer. The experimental pattern match very well with the simulated one obtained from X-ray single crystal structure.

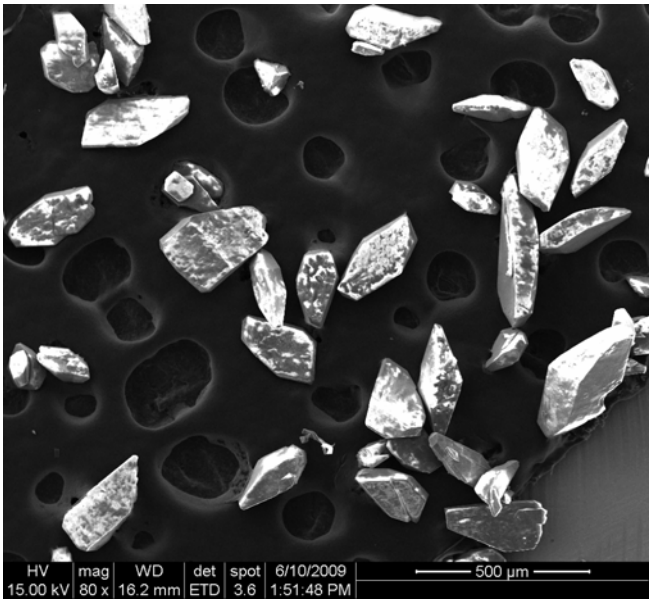

Fig. S6: A SEM photograph of the complex **1** is given which revealed the nature of the particle size.