

Unprecedented (3,9)-Connected $(4^2.6)_3(4^6.6^{21}.8^9)$ Net Constructed by Trinuclear Mixed-Valence Cobalt Clusters

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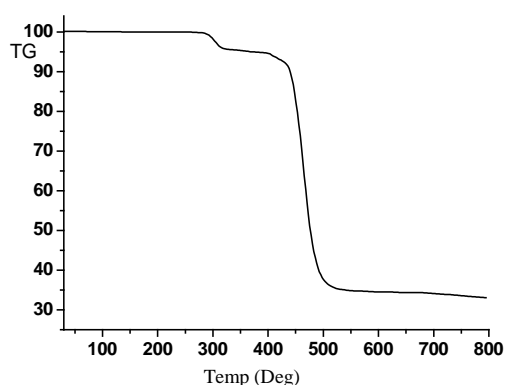


Figure S1. TGA curve of **1** in air at the heating rate of 15°C per min.

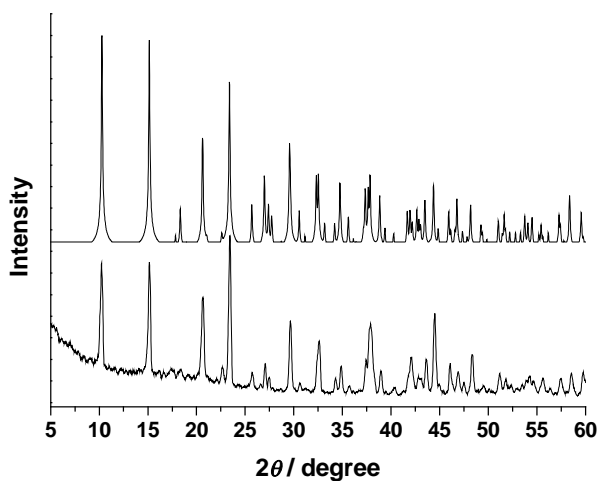


Figure S2. The simulated (top) and measured (bottom) of XRPD patterns of **1**.

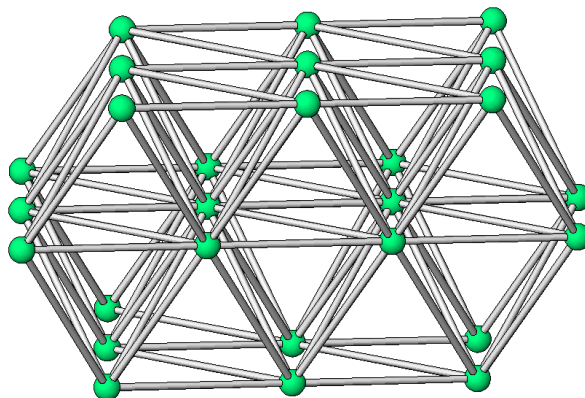


Figure S3. Schematic view of the 12-connected uninodal SQC15 net in **1**. The green balls represent $\text{Co}_3(\text{OH})(\text{CO}_2)_6$ clusters.

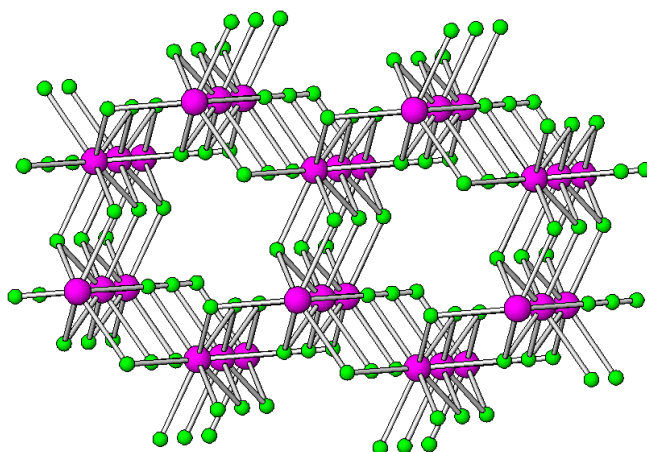


Figure S4. Schematic view of the 3-D (3,9)-connected net of LaCl_3 .

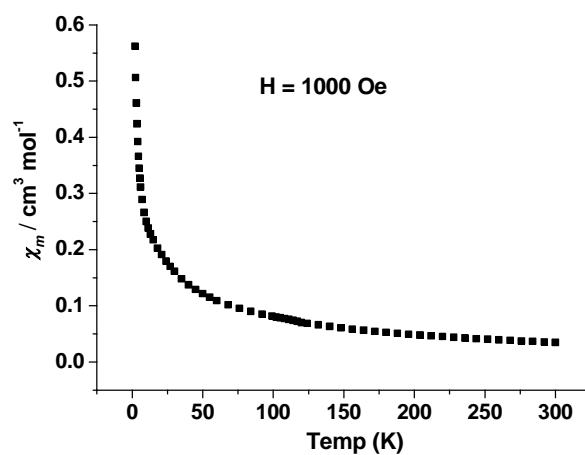


Figure S5. The temperature dependence of susceptibilities measured under an applied field of 1000 Oe.