Supporting Information for

Chiral Molecular Ferromagnets Based on Copper(II) Polymers with End-On Azido Bridges

Zhi-Guo Gu, You Song, Jing-Lin Zuo*, and Xiao-Zeng You

Coordination Chemistry Institute and the State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, China

Index Page

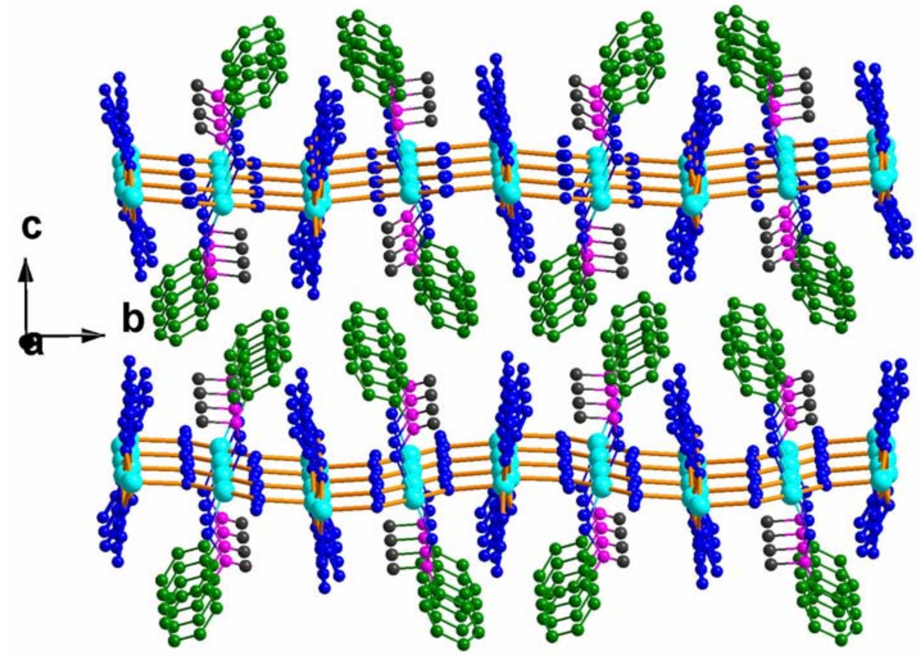

Figure S1. Structural model for **1** involving organic molecules separating the copper-azido layers. Color coding: Cu (light blue), N (blue), C (black, green, purple).

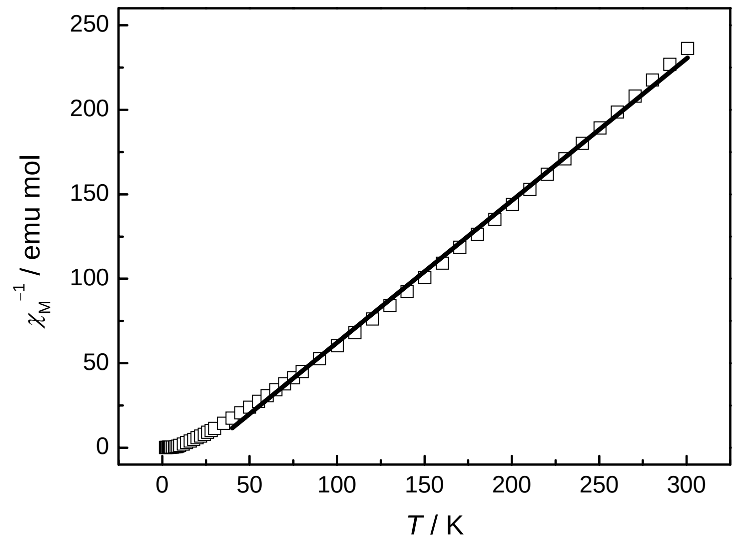

Figure S2. $1/\chi_M$ versus T in an applied field of 2 kOe for **1**. The solid line is the best fit to the Curie–Weiss law.

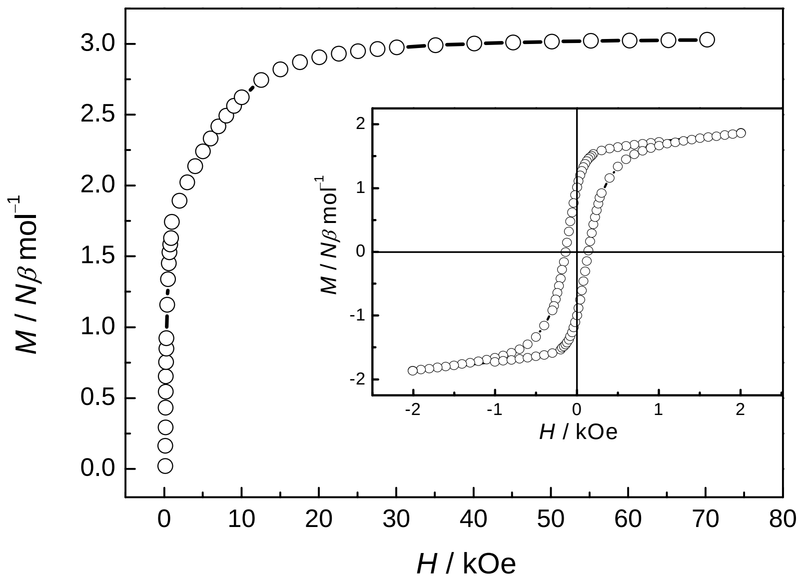

Figure S3. Magnetization versus field up to H = 70 kOe at 1.8 K for **1**. The insert shows the hysteresis loop in the ±2 kOe range at T = 1.8 K.

Magnetic susceptibility data simulation for **1**:

For the two-dimensional complex based on interacting chains, the Hamiltonian is:

$$\hat{H}_{chain} = -J\sum_{i=1}^{n-1}\hat{S}_{A_i}\hat{S}_{A_{i+1}}$$

$$\hat{H} = -J\sum_{i=1}^{n-1}\hat{S}_{A_i}\hat{S}_{A_{i+1}} - zJ'\hat{S}_{chain}\hat{S}_{Cu}$$

Van Vleck equation:

$$\chi_{chain} = \frac{Ng^2\beta^2}{4kT}\left[\frac{N}{D}\right]^{2/3} \qquad (1)$$

N=1.0+5.79799y+16.90265y^2+29.37688y^3+29.83295y^4+14.03691y^5

D=1.0+2.79799y+7.00867y^2+8.65386y^3+4.57431y^4 and $y = J/2kT$

$$\chi = \chi_{chain} + 0.5\chi_{Cu} \qquad (2)$$

$$\chi_m = \frac{\chi}{1-\chi(2zJ'/Ng^2\beta^2)} \qquad (3)$$