

Supplementary materials

Slow Magnetic Relaxation in a 4,2-Ribbon like Fe^{III}₂Co^{II} Heterobimetallic Chain

Soonchul Kang, Shinji Kanegawa and Osamu Sato

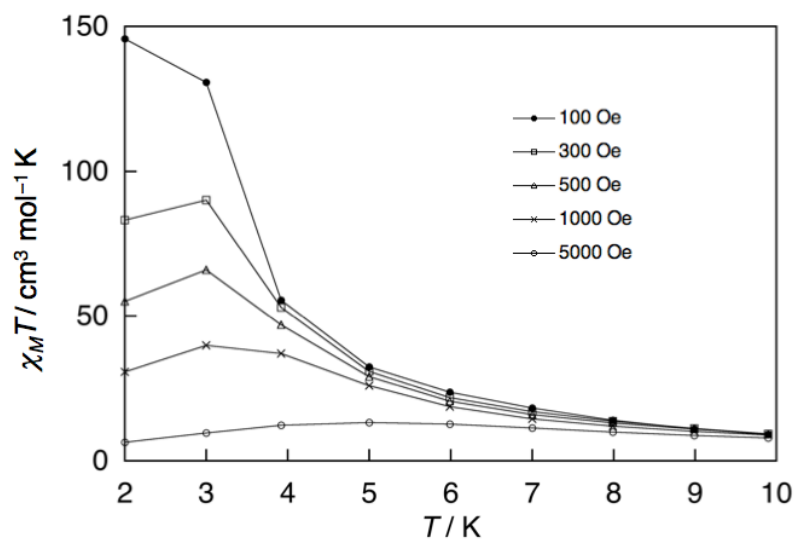


Fig. S1 Field dependence of magnetic susceptibility in the form of $\chi_M T$ versus T for **1**.

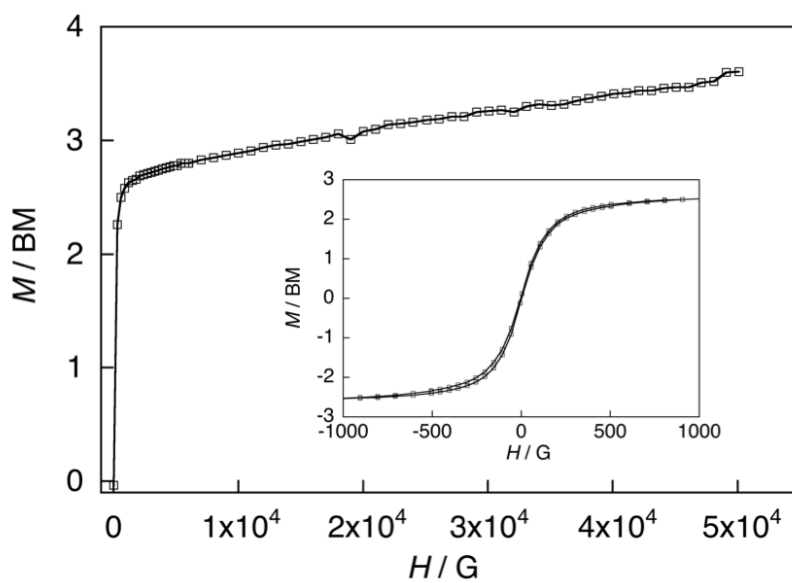


Fig. S2 Field dependence of M for **1** at 2.0 K.

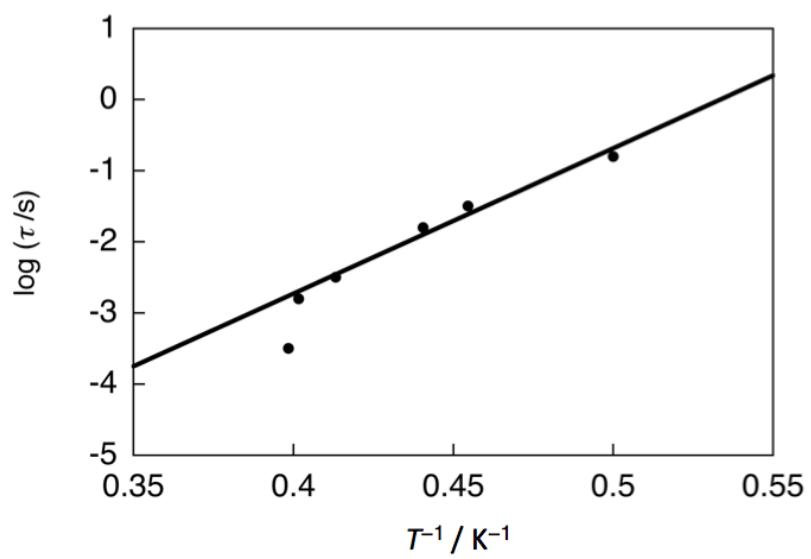


Fig. S3 Arrhenius plots for **1**.

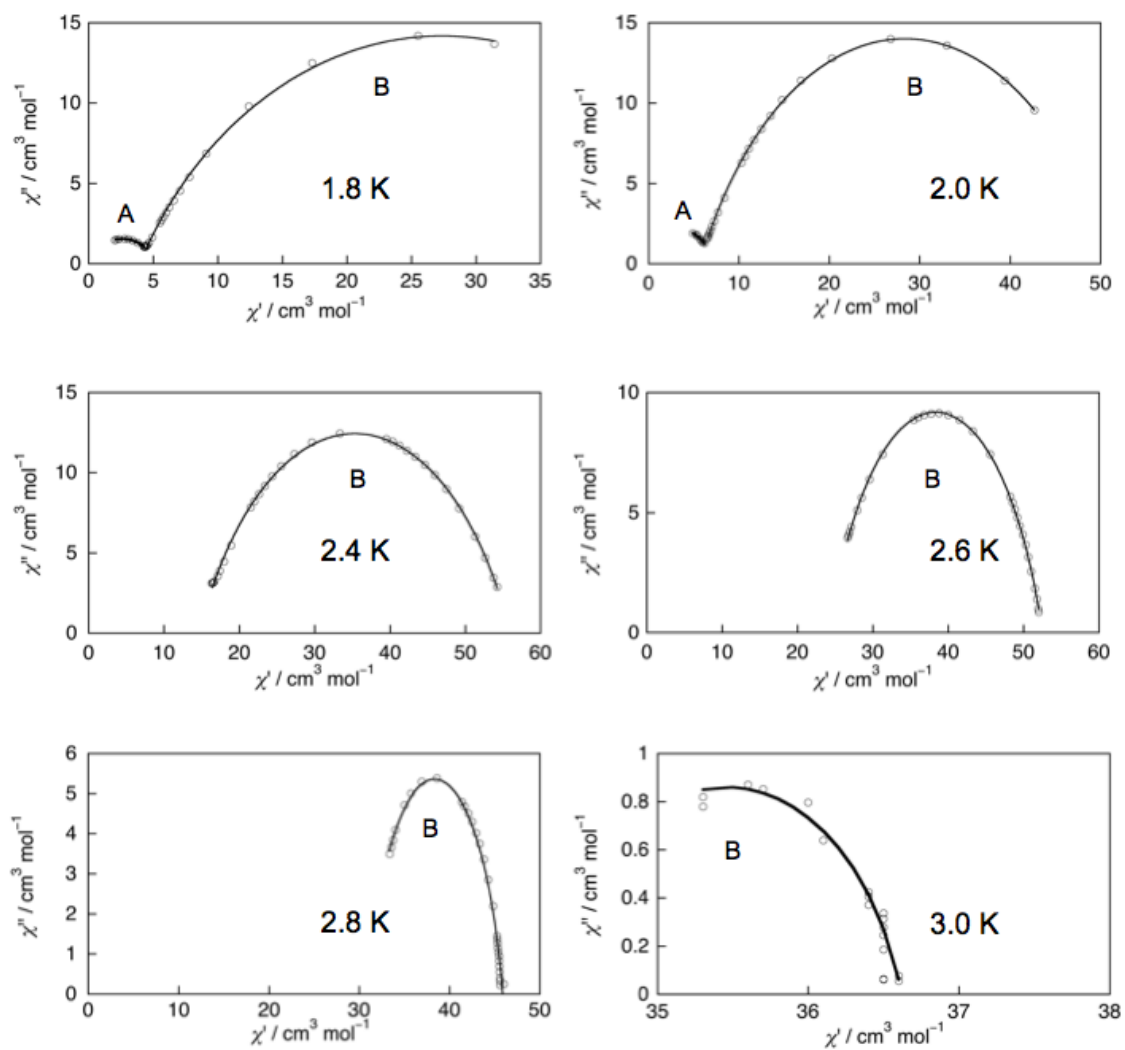


Fig. S4 Cole–Cole plots for **1** at different temperature. The solid line represents the best-fit curve.

Table S1 Selected ac magnetic data for **1**

	$\chi_{S(A)}/\chi_{S(B)}$	$\chi_{T(A)}/\chi_{T(B)}$	$\alpha_{(A)}/\alpha_{(B)}$
1.8 K	0.00/3.94	5.27/50.73	0.33/0.31
2.0 K	0.00/5.72	7.29/51.01	0.33/0.29
2.4 K	-/14.63	-/55.94	-/0.31
2.6 K	-/24.17	-/52.47	-/0.27
2.8 K	-/30.80	-/45.90	-/0.21
3.0 K	-/34.30	-/36.62	-/0.19

(a) Adiabatic and (b) isothermal susceptibilities and (c) Cole-Cole parameter in the following equation :

$$\chi''(\chi) = \frac{\chi_T - \chi_S}{2 \tan[(1+\alpha)\pi/2]} \left\{ (\chi' - \chi_S)(\chi_T - \chi') + \frac{(\chi_T - \chi_S)^2}{4 \tan^2[(1-\alpha)\pi/2]} \right\}^{1/2}$$