Electronic Supplementary Information (ESI)

Tuning the Magnetic Behaviors in $\text{[Fe}^{\text{III}}_{12}\text{Ln}^{\text{III}}_{4}]$ Clusters with Aromatic Carboxylate Ligands

Sui-Jun Liu, Yong-Fei Zeng, Li Xue, Song-De Han, Ji-Min Jia, Tong-Liang Hu* and Xian-He Bu

Department of Chemistry, TKL of Metal- and Molecule-Based Material Chemistry and Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Nankai University, Tianjin 300071, P.R. China

*To whom correspondence should be addressed. E-mail: tlhu@nankai.edu.cn
Fig. S1. Magnetization vs. field plots at 2 K for 1. The solid line is the Brillouin function for $S = 8$ and $g = 2.1$. 
Fig. S2. ln(χ''_M / χ'_M) vs. 1/T plot for 2 (a) at 997 Hz and 6 (b) at 1488 Hz. The solid line is the best-fit curves (see text).
Fig. S3. Temperature dependence of the ac $\chi_M$ at different frequencies with $H_{dc} = 0$ Oe for 1 (a) and 5 (b).
Fig. S4. Temperature dependence of the ac $\chi'_M$ (a) and $\chi''_M$ (b) at different frequencies for 4 with $H_{dc} = 0$ Oe.