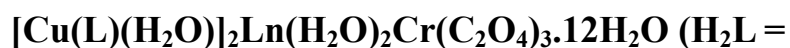


Electronic Supporting Information

Multi-component synthesis of trimetallic tetranuclear clusters



1,4,8,11-Tetraazacyclotradecane-2,3-dione, $\text{Ln}^{3+} = \text{Gd}, \text{Tb}$ and Dy)

Hui-Zhong Kou,^{*,a} Kong-Qiu Hu,^a Hao-Yan Zhao,^a Jin-Kui Tang,^b Ai-Li Cui^a

^a Department of Chemistry, Tsinghua University, Beijing 100084, People's Republic of China. E-mail: kouhz@mail.tsinghua.edu.cn; Fax: +86 10 62771748; Tel: + 86 10 62771748

^b State Key Laboratory of Rare Earth Resource Utilization, Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, People's Republic of China.

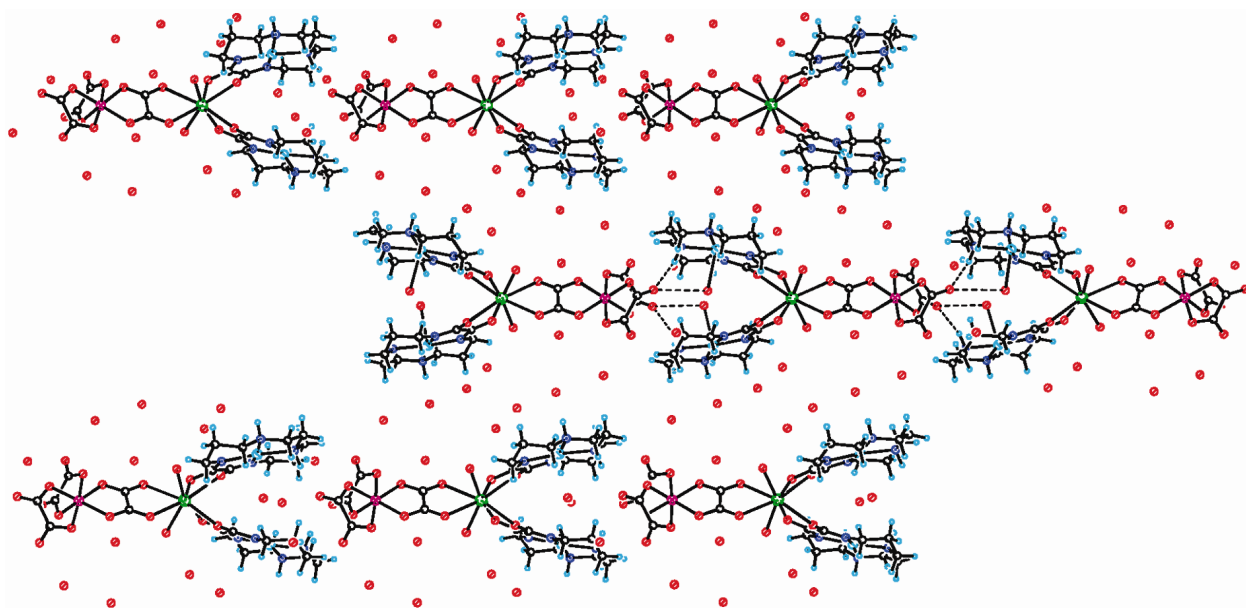


Fig. S1: Intermolecular contacts in compounds **1** and **2**. Dotted lines represent the hydrogen bonding interactions.

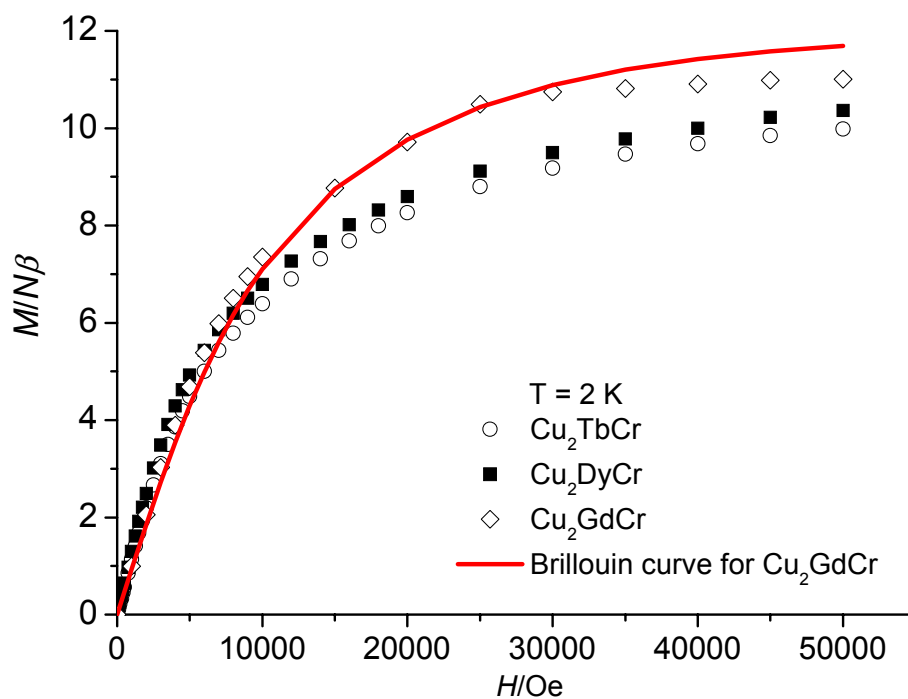


Fig. S2. Field dependence of magnetization for the Cu₂LnCr compounds at 2.0 K.