



Supporting Information

for

Self-assembly of a terbium(III) 1D coordination polymer on mica

Quentin Evrard, Giuseppe Cucinotta, Felix Houard, Guillaume Calvez, Yan Suffren, Carole Daiguebonne, Olivier Guillou, Andrea Caneschi, Matteo Mannini and Kevin Bernot

Beilstein J. Nanotechnol. **2019**, *10*, 2440–2448. doi:10.3762/bjnano.10.234

Additional magnetic measurements data

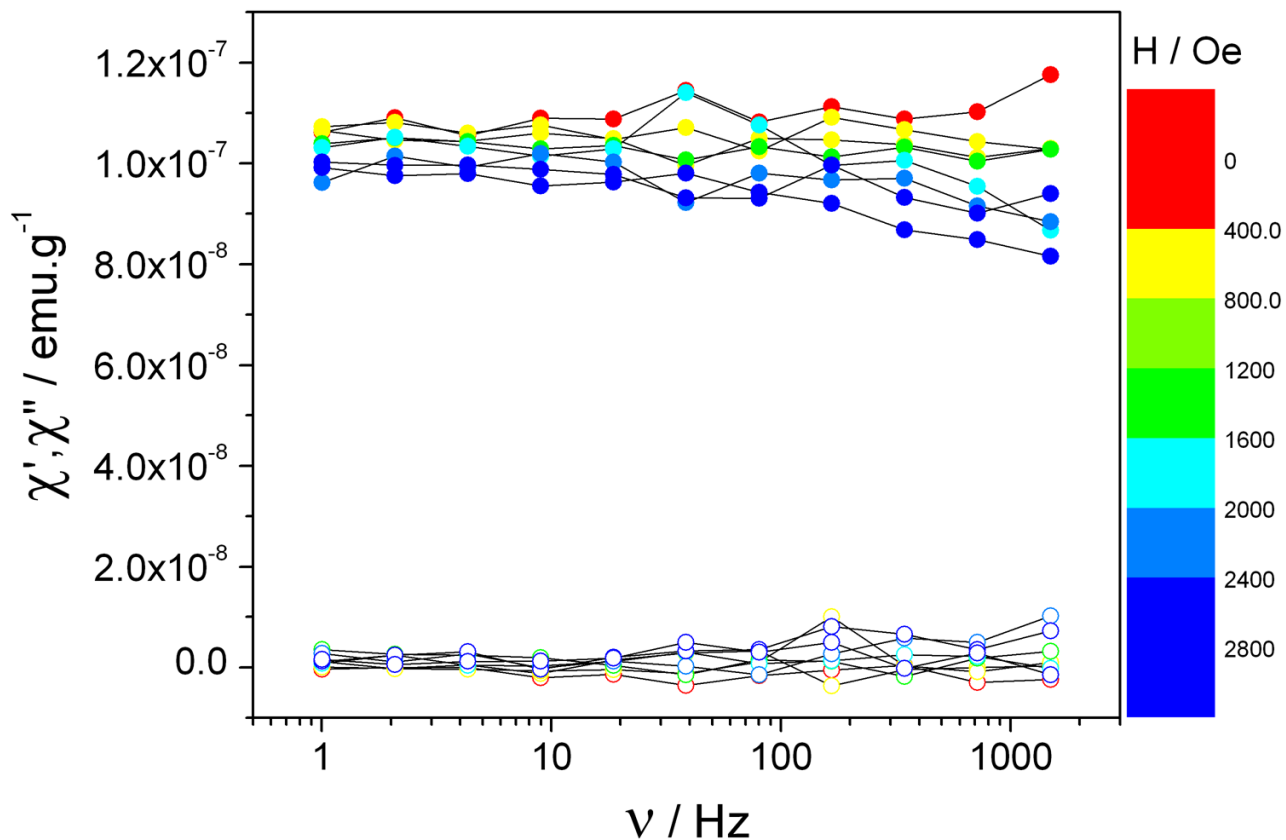


Figure S1: Frequency dependence of the in-phase component of the magnetization (χ' , filled circles) and the out-of-phase component of the magnetization (χ'' , open circles) of the mica substrate (11.9 mg) measured at 2 K for static fields from 0 Oe (red) to 6400 Oe (blue). On this basis, substrate contributions of $\chi' = 1 \times 10^{-7} \text{emu}\cdot\text{g}^{-1}$ and $\chi'' = 0 \text{emu}\cdot\text{g}^{-1}$ have been considered for the measurements of the deposits.

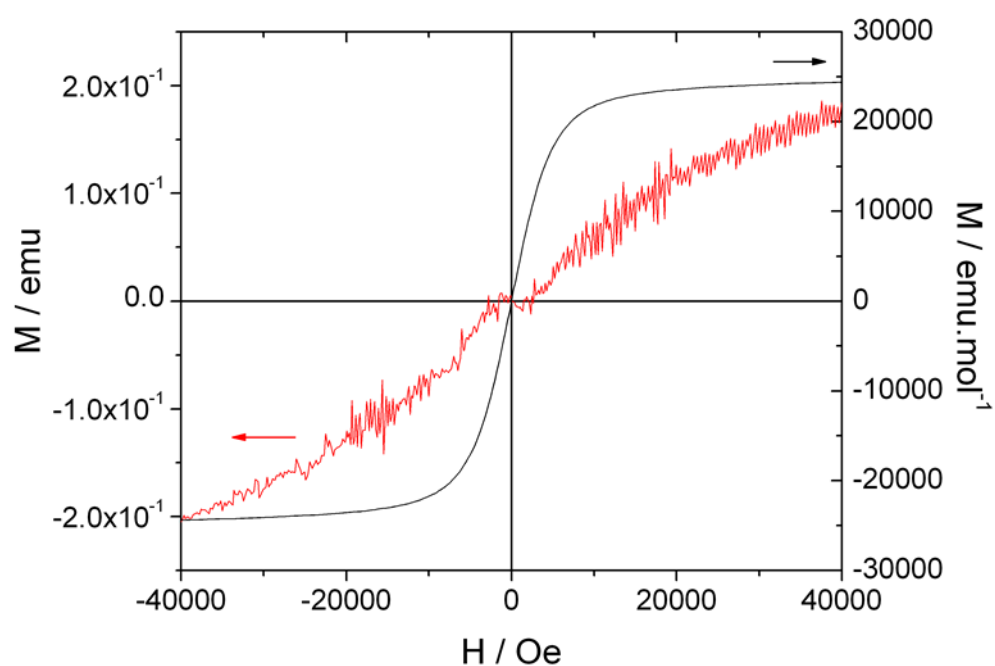


Figure S2: Comparison of the magnetization curves measured at 1.8 K on the bulk material $[\text{Tb}(\text{hfac})_3 \cdot 2\text{H}_2\text{O}]_n$ (black line, right scale) and on the deposits $[\text{Tb}(\text{hfac})_3 \cdot 2\text{H}_2\text{O}]_n @ \text{mica}$ (red line, left scale, contribution of the mica substrate subtracted).

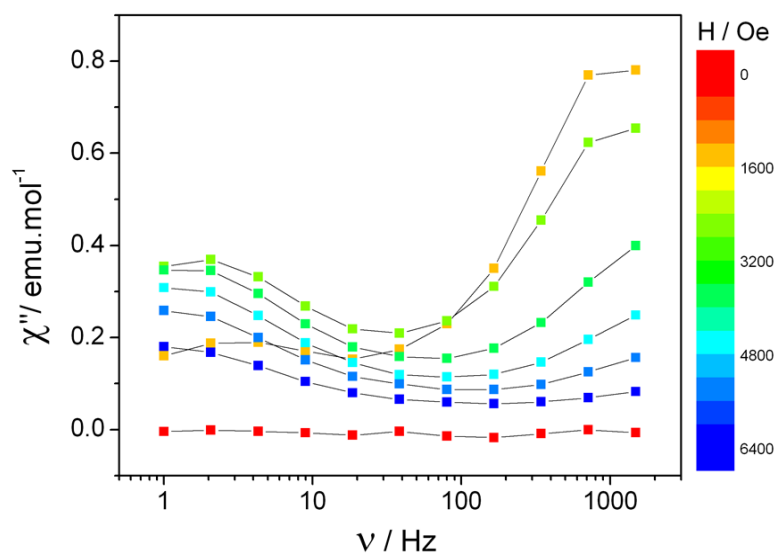


Figure S3: Frequency dependence of the out-of-phase component of the magnetization (χ'') of $[\text{Tb}(\text{hfac})_3 \cdot 2\text{H}_2\text{O}]_n$ measured at 2 K for static fields from 0 Oe (red) to 6400 Oe (blue).

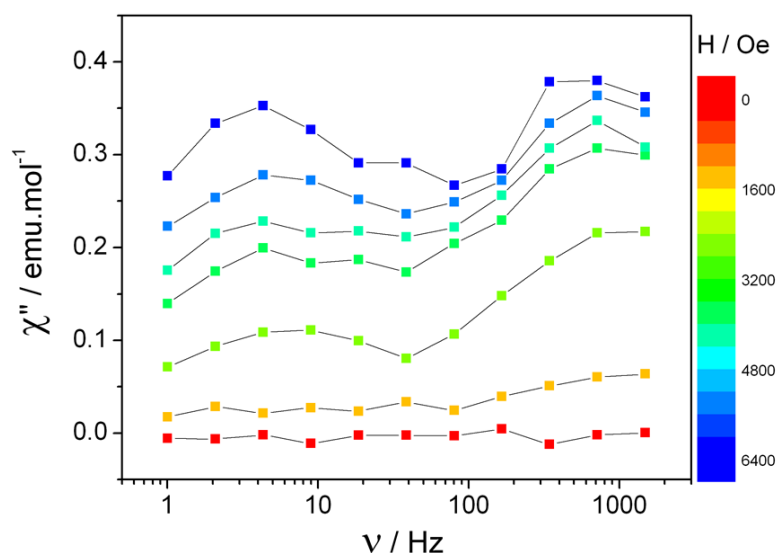


Figure S4: Frequency dependence of the out-of-phase component of the magnetization (χ'') of $[\text{Tb}(\text{hfac})_3 \cdot 2\text{H}_2\text{O}]_n@\text{mica}$ measured at 2 K for static fields from 0 Oe (red) to 6400 Oe (blue). The values in $\text{emu} \cdot \text{g}^{-1}$ are calculated considering an estimated weight of the deposit of 1.53 ng as obtained from the comparison of the χ' values with the ones measured for the bulk sample. Contributions of the mica substrate have been subtracted.