

Slow magnetic relaxation in Tb(III)-based coordination polymer

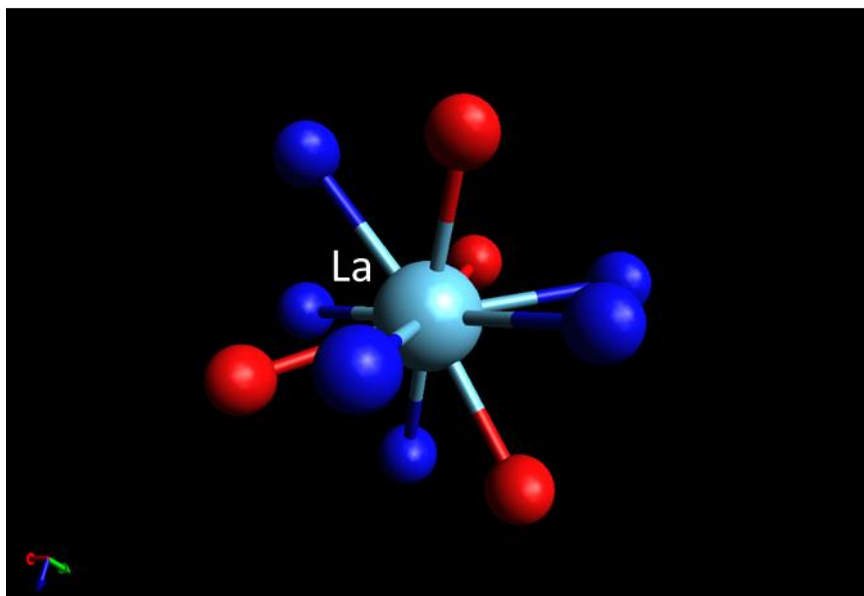
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La···O model



La-N: $\sim 2.803 \text{ \AA}$, La-O: $\sim 2.593 \text{ \AA}$

Figure S1. Optimized structure of the model.

Table S1. The coordinates for model.

x	y	z
-1.44839	2.01626	-1.35746
-2.80803	-0.00036	-0.00098
-1.44887	-2.01735	1.35581
1.16693	1.68318	-1.59223
1.1665	-1.68485	1.59115
-0.00007	-0.00052	-0.0004
1.4474	1.76437	1.67004
1.44858	-1.765	-1.67023
2.80733	-0.0001	0.00021
-1.16723	1.39523	1.8475
-1.16618	-1.39701	-1.84832

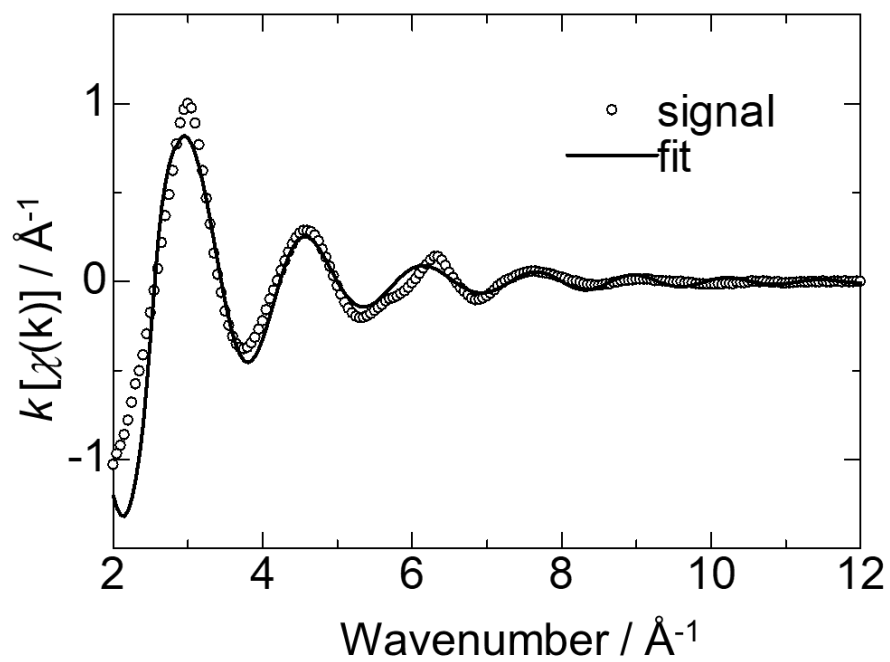


Figure S2. EXAFS oscillation of **polyTb**.

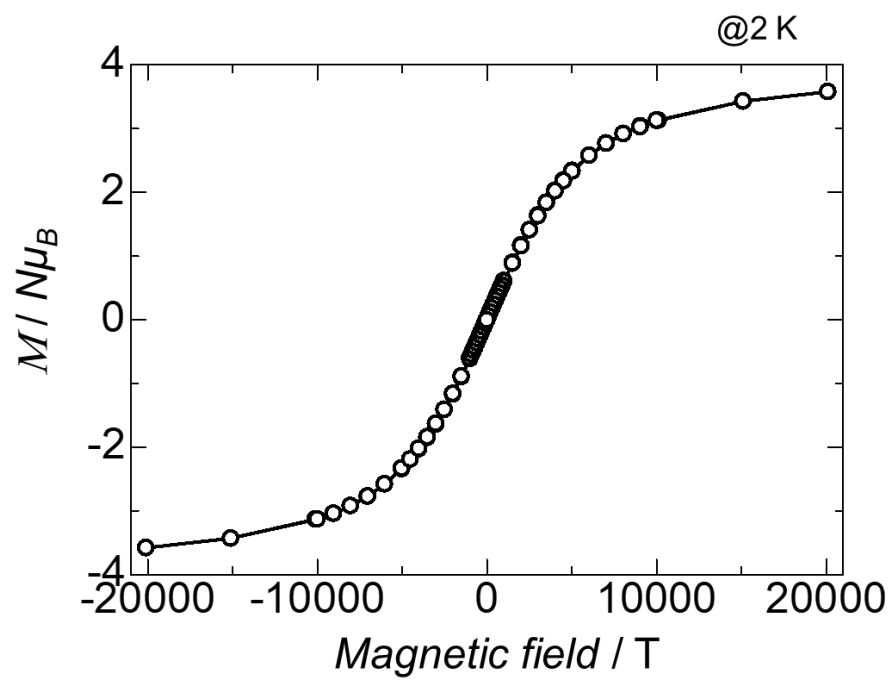


Figure S3. The magnetization vs. field plots for **polyTb**.

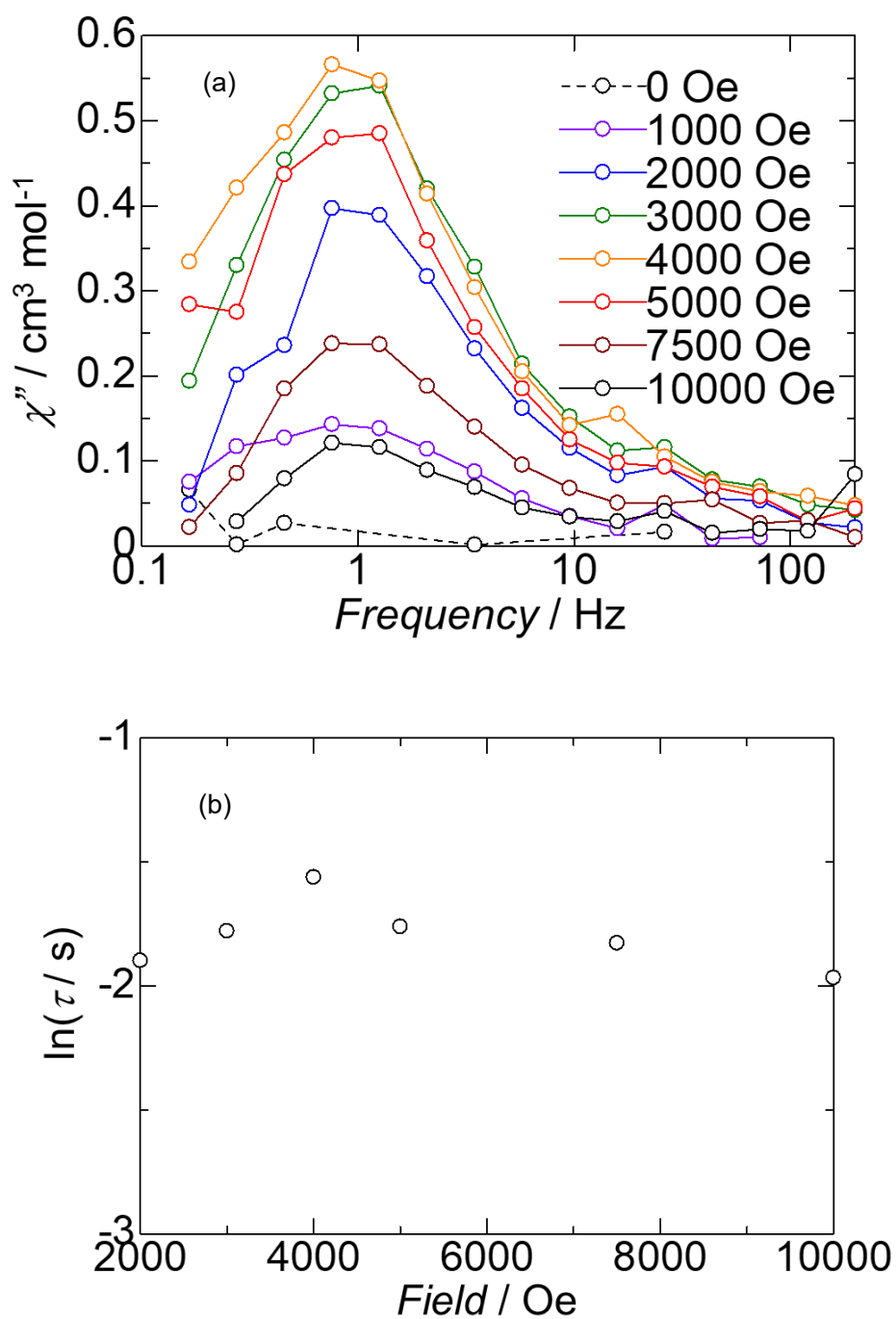


Figure S4. (a) χ'' vs. ν plots for **polyTb** in various field in solid at 2 K; (b) External field dependent of τ values of **polyTb** in various field in solid at 2 K.

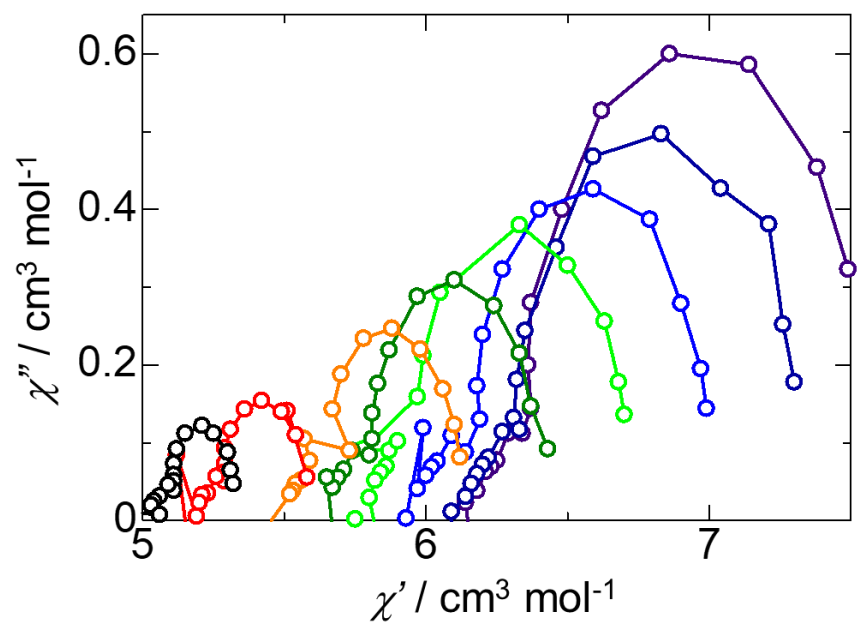


Figure S5. Cole–Cole plots for **polyTb** in various field in solid at 2 K

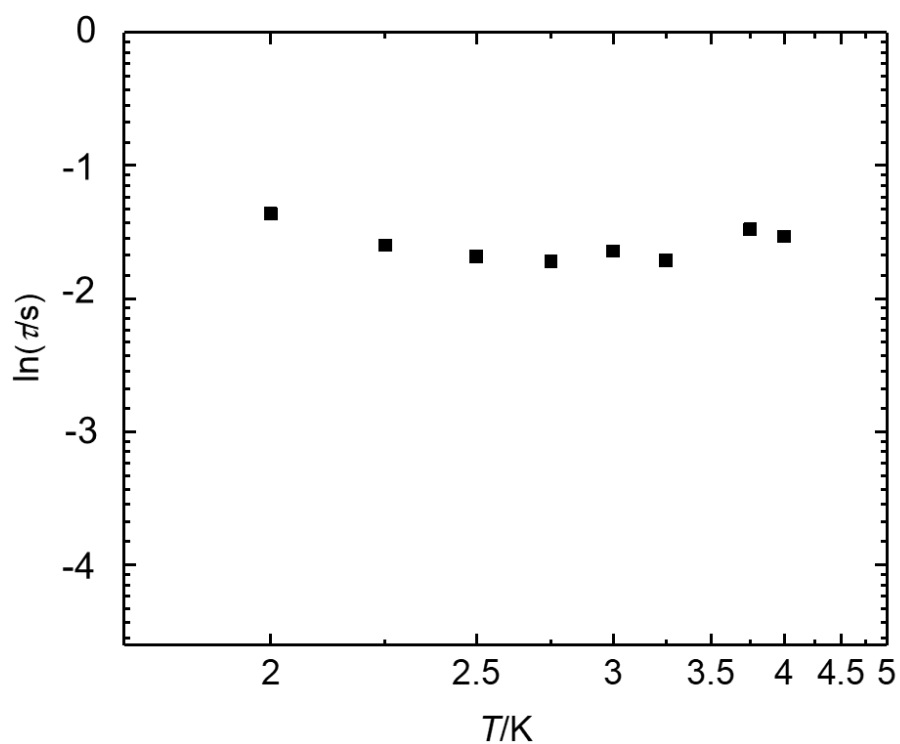


Figure S6. The relaxation time for **polyTb**.

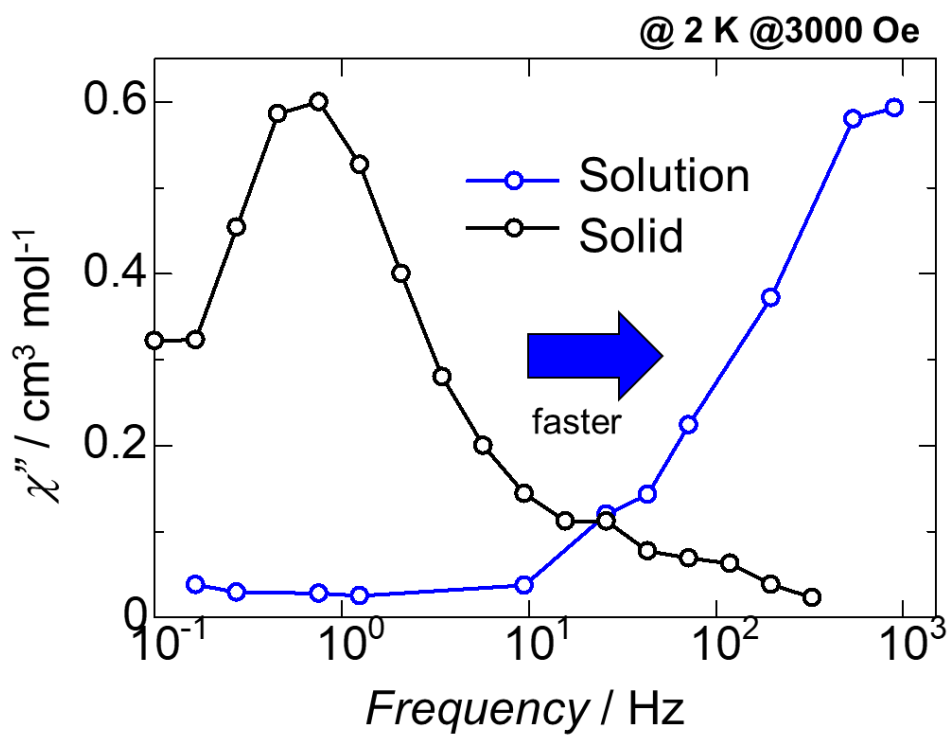


Figure S7. χ'' vs. ν plots for **polyTb** in a field of 3000 Oe in solid and solution at 2 K.

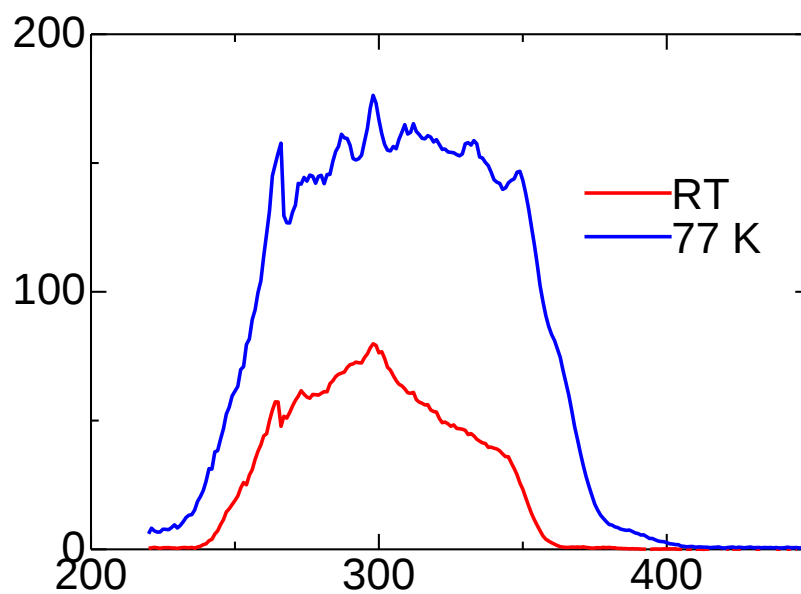


Figure S8. Excitation spectra of **polyTb** probed at 640 nm at RT and 77 K.

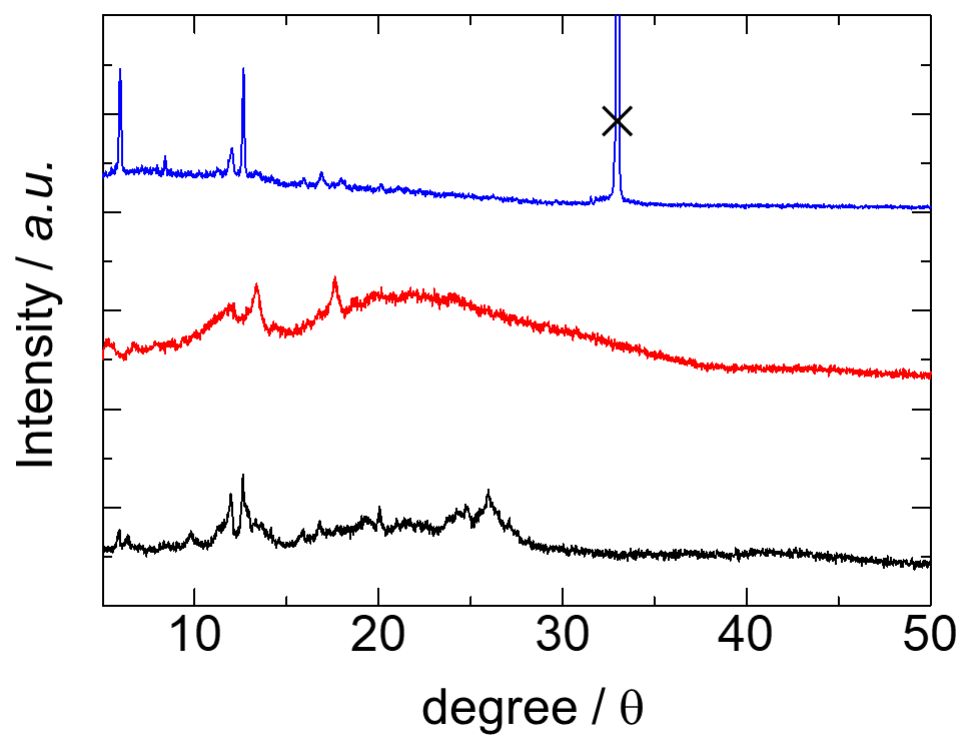


Figure S9. XRD pattern of **polyTb**: blue: on Si (diffraction at 33 degree is comes from Si substrate); red: on glass; black: powder.