SUPPORTING INFORMATION

1-D hydrogen-bonded organization of hexanuclear {3d-4f-5d} complexes: Evidence for slow relaxation of the magnetization for [{L^Me2Ni(H2O)Ln(H2O)4.5}2{W(CN)8}2] with Ln = Tb and Dy

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Table S1. Results of the SHAPE analysis for the {W(CN)$_8$} cores in compounds **2**.

Figure S1. Frequency dependence of the imaginary component, χ_M", of the ac-susceptibility for [{L^Me2Ni(H$_2$O)Tb(H$_2$O)$_{4.5}$}$_2${W(CN)$_8$}$_2$] **2** measured in H$_{ac}$ = 3 Oe in the absence of static field.

Figure S2. Field dependence of the imaginary component, χ_M", of the ac-susceptibility for [{L^Me2Ni(H$_2$O)Tb(H$_2$O)$_{4.5}$}$_2${W(CN)$_8$}$_2$] **2** measured in H$_{ac}$ = 3 Oe with frequency 100 Hz.

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**Table S1**. Results of the SHAPE[1] analysis for the {$W(CN)_8$} cores in compounds **2**.

[$M(CN)_8$]	**(SAPR-8)**[a]	(DD-8) [a]	(JBTP-8) [a]	(SBTP-8) [a]
W1	**0.81413**	1.12031	1.76658	24.92672
W2	**0.13741**	2.49157	2.86591	24.30476

[a] SAPR-8: *D4d*, Square antiprism; DD-8: *D2d*, Triangular dodecahedron; JBTP-8: *C2*, Biaugmented trigonal prism J50; SBTP-8: *C2v*, Spherical biaugmented trigonal prism.

[1.] Llunell, M.; Casanova, D.; Cirera, J.; Bofill, J. M.; Alemany, P.; Alvarez, S.; Pinsky, M.; Avnir, D. *SHAPE: Continuous shape measures of polygonal and polyhedral molecular fragments*, 1.1b; University of Barcelona: Barcelona, 2005. Casanova, D.; Llunell, M.; Alemany, P.; Alvarez, S., *Chem. Eur. J.* **2005,** *11*, 1479-94.

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Figure S1. Frequency dependence of the imaginary component, χ_M", of the ac-susceptibility for $[\{L^{Me2}Ni(H_2O)Tb(H_2O)_{4.5}\}_2\{W(CN)_8\}_2]$ **2** measured in $H_{ac} = 3$ Oe in the absence of static field.
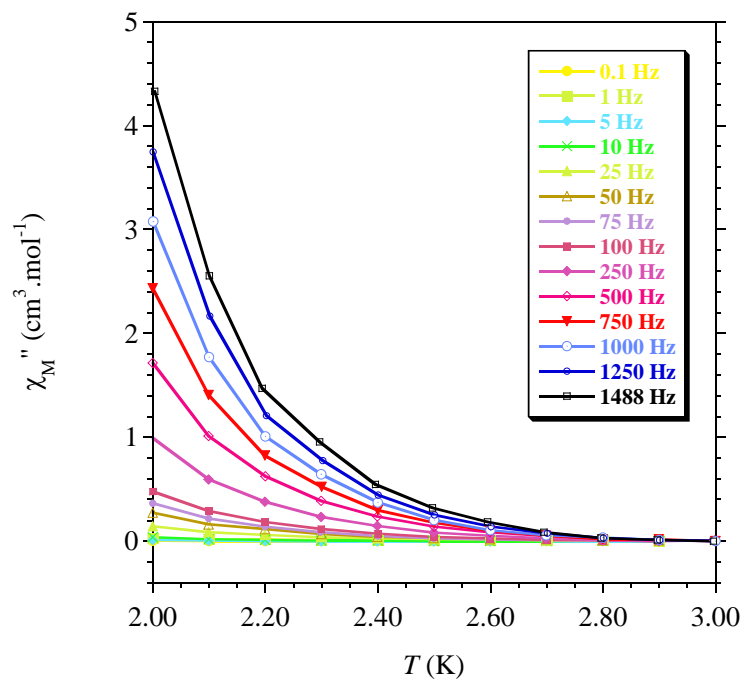
SUPPORTING INFORMATION

Figure S2. Field dependence of the imaginary component, χ_M", of the ac-susceptibility for $[\{L^{Me2}Ni(H_2O)Tb(H_2O)_{4.5}\}_2\{W(CN)_8\}_2]$ **2** measured in $H_{ac} = 3$ Oe with frequency 100 Hz.