2,2’-dipyridylamino-based ligands with substituted alkyl chain groups and their mononuclear M(II) spin crossover complexes

Hayley S. Scott, Boujemaa Moubaraki, Guillaume Chastanet, Jean-François Létard, Stuart R. Batten, and Keith S. Murray,*

**Supplementary Information (ESI)**

**Figure S1.** Packing diagram of 1 along c-axis.

**Figure S2.** Complex 5, packing along the c-axis.
Figure S3. The asymmetric unit of 6.

Figure S4. Packing of 7, along the \( a \)-axis.
Figure S5. Thermal behaviour of the $\chi_MT$ product of 1 before irradiation (○), during irradiation (△) and in the dark after irradiation (■). The insert presents the derivative of the thermal behaviour in the dark after irradiation whose minimum allows the determination of the $T$(LIESST) value.

Figure S6. Thermal behaviour of the $\chi_MT$ product of 2 before irradiation showing reproducibility on cycling (○), during irradiation (△) and in the dark after irradiation (●). The insert presents the derivative of the thermal behaviour in the dark after irradiation, the minimum of which allows the determination of the $T$(LIESST) value.
Figure S7. Plot of the different relaxation kinetics recorded as function of the temperature for \(1\).

Figure S8. Plot of the different relaxation kinetics recorded as function of the temperature for \(2\). The red lines are the fits discussed in the text.