Supplementary Materials: Single-Crystal-to-Single-Crystal Anion Exchange in a Gadolinium MOF: Incorporation of POMs and [AuCl₄]⁻

Javier López-Cabrelles, Guillermo Mínguez Espallargas * and Eugenio Coronado



Figure S1. X-ray powder patterns of **1** (**left**) and **1–W**₆**O**₁₉, (**right**). The experimental patterns are shown in red and the calculated pattern from single crystal data are shown in black. It can be clearly seen that whereas the structure of 1 collapses upon solvent removal, **1–W**₆**O**₁₉, remains stable.



Figure S2. Infrared spectra of pristine **1** and after the unsuccessful anion exchange with [SM012O40]²⁻ and [W₅VO19]³⁻ POMs.



Figure S3. Cont.



Figure S3. Views along the (100), (010) and (001) directions (left, middle and right, respectively) of the crystal structures of 1 and 1–W₆O₁₉.



Figure S4. Views along the (100), (010) and (001) directions (left, middle and right, respectively) of the crystal structures of 1-Mo₆O₁₉ and 1-AuCl₄.



Figure S5. Views along the (100), (010) and (001) directions (left, middle and right, respectively) of the crystal structure of $1-W_6O_{19}-AuCl_4$.



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