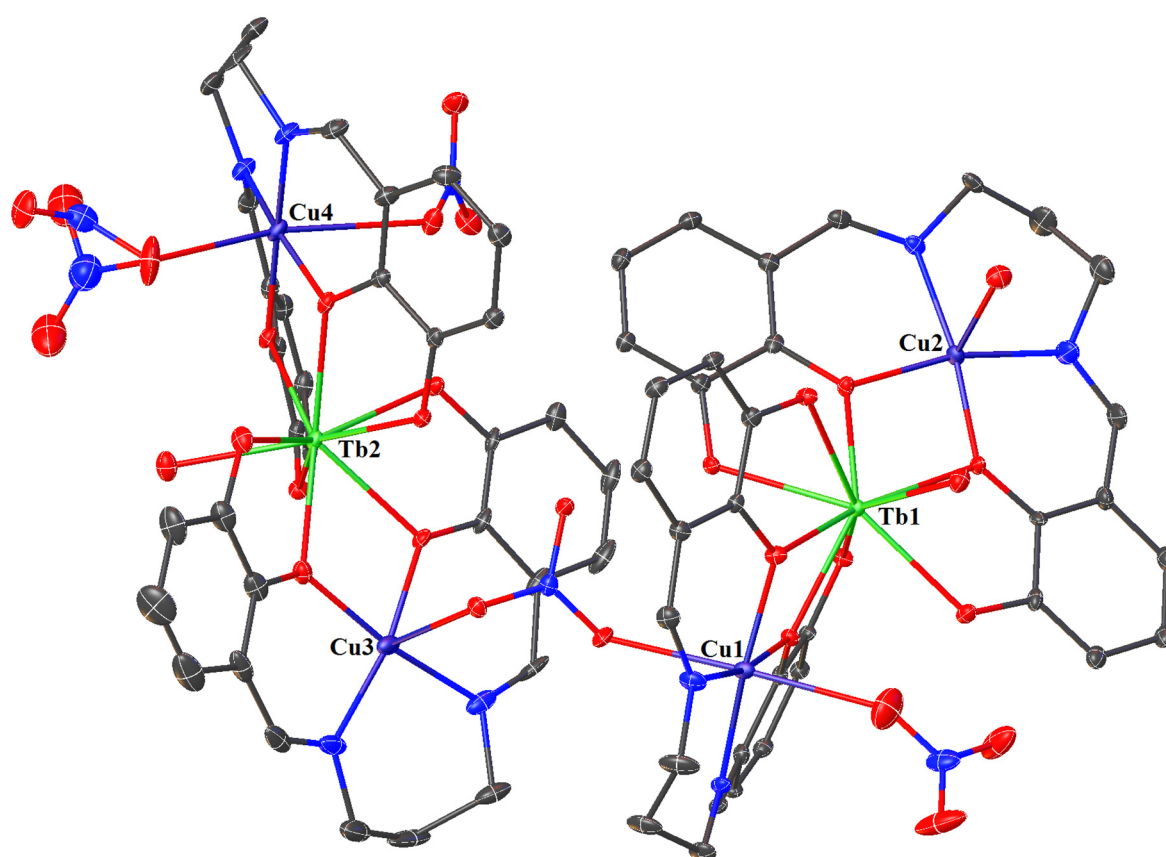
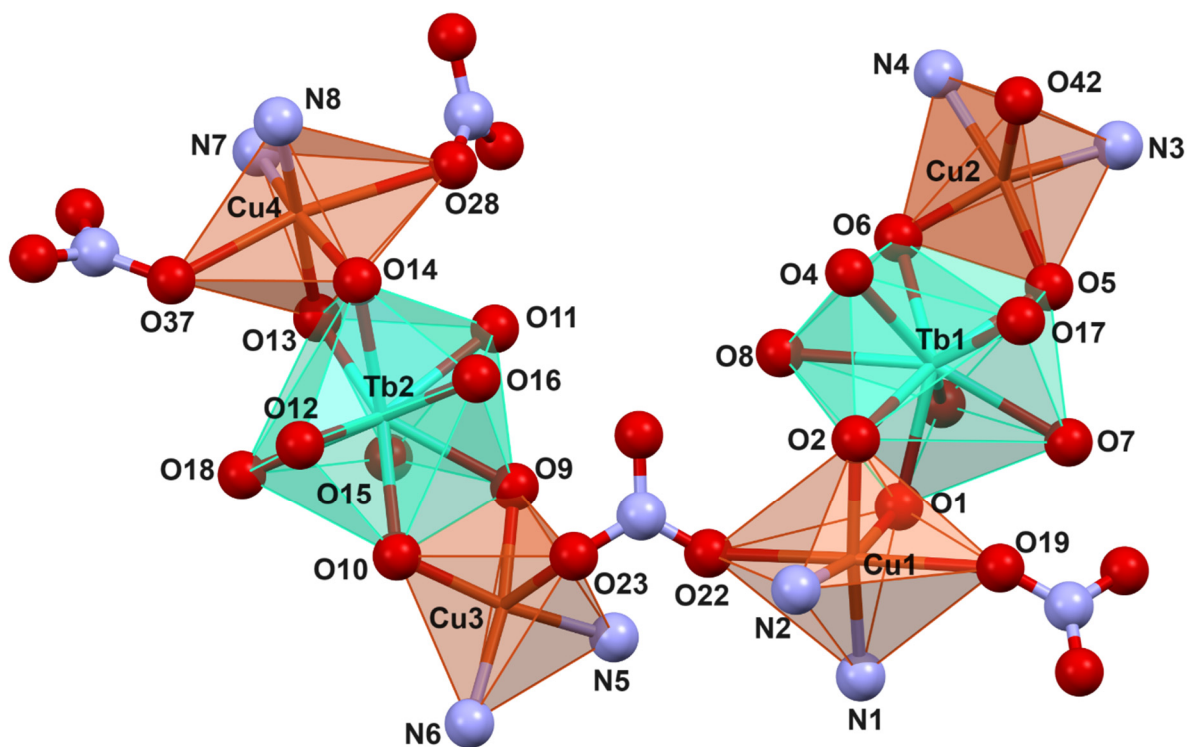


**Table S1.** Results of SQUEEZE procedure for crystals of 1-3.

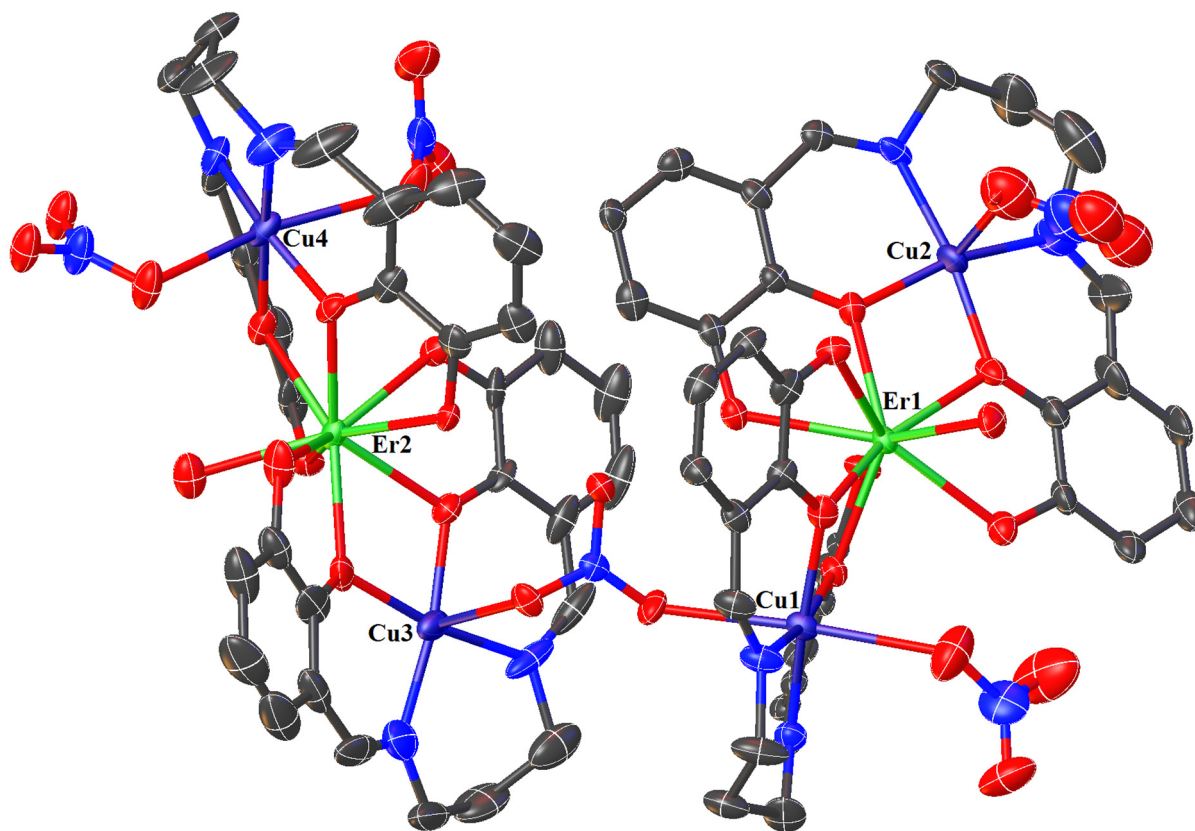
	Calculated accessible volume for solvent (Å <sup>3</sup> )	Calculated electrons per asymmetric unit	Suggested chemical identification of solvent molecules	Electrons per asymmetric unit
1	157	67	1 CH <sub>3</sub> OH, 4.5 H <sub>2</sub> O	63
2	174	45	4.5 H <sub>2</sub> O	45
3	238	114	3 CH <sub>3</sub> OH, 6 H <sub>2</sub> O	114



**Figure S1.** The molecular structure of **1**. Displacement ellipsoids are drawn at the 30% probability level. For clarity, the H atoms, counter ions and the noncoordinated solvent molecules are omitted.



**Figure S2.** Coordination environment of Cu(II) and Tb(III) ions in compound 1.



**Figure S3.** The molecular structure of **3**. Displacement ellipsoids are drawn at the 30% probability level. For clarity, the H atoms, counter ions and the noncoordinated solvent molecules are omitted.

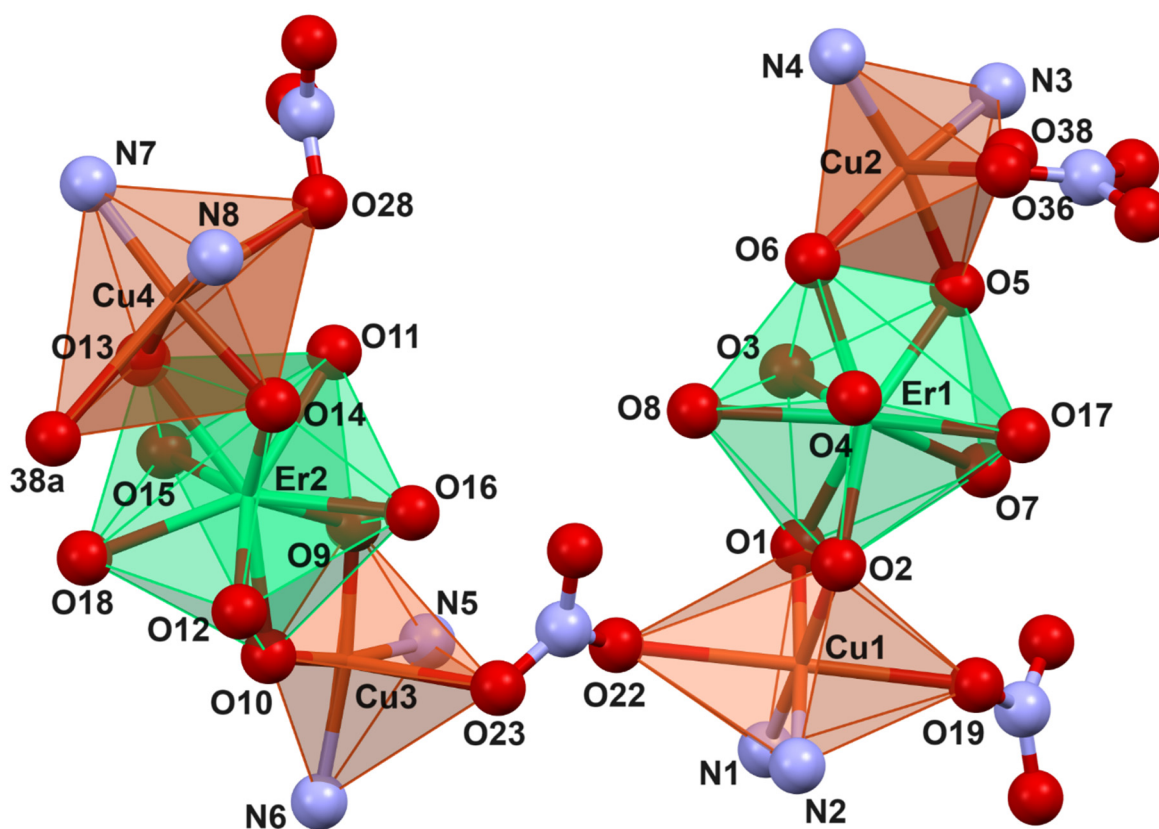


Figure S4. Coordination environment of Cu(II) and Er(III) ions in compound 3.

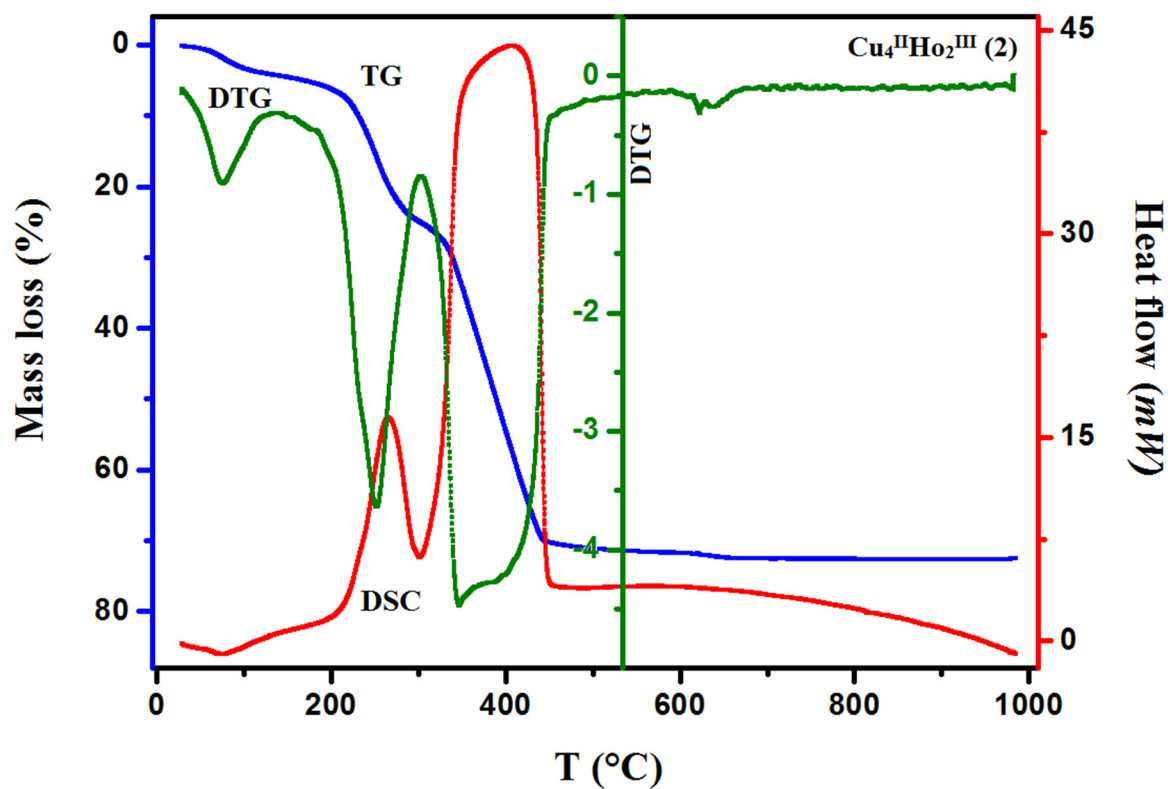


Figure S5. TG, DTG and DCS curves of thermal decomposition of the complex 2 in air.

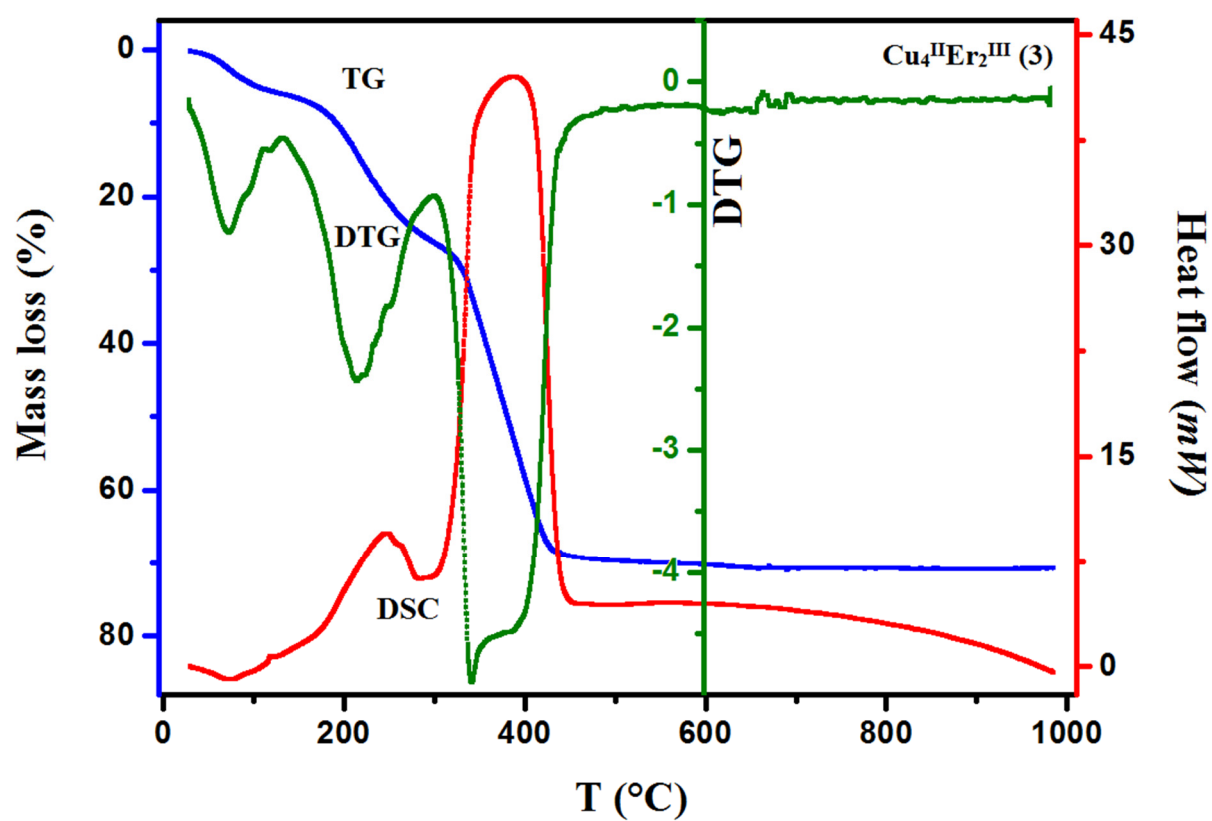


Figure S6. TG, DTG and DCS curves of thermal decomposition of the complex 3 in air.