Supplementary material

Photoluminescent Layered Crystal Consisting of Anderson-Type Polyoxometalate and Surfactant toward a Potential Inorganic-Organic Hybrid Laser

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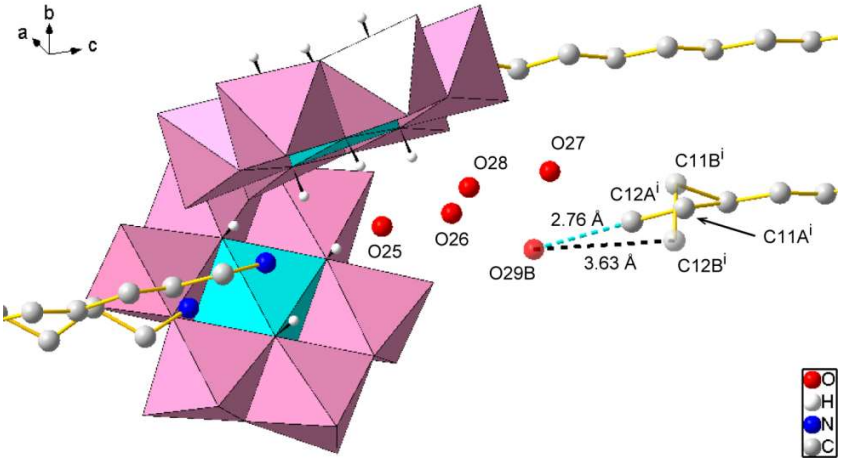


Figure S1. Molecular conformation around the disordered part (C: gray, N: blue, O: red, H: white). $CrMo_6$ anions are depicted in polyhedral model (Mo: pink, Cr: light blue). H atoms of $C_{12}NH_3$ cations and solvents are omitted for clarity. The disordered atoms (C11B, C12B, and O29B) in the minor part are indicated in transparent color. Black broken line indicates a short contact due to C–H···O hydrogen bonding. Light blue broken line represents a short distance (not a short contact, see text in detail). Symmetry code: (*i*) *x*, *y*, 1+*z*.

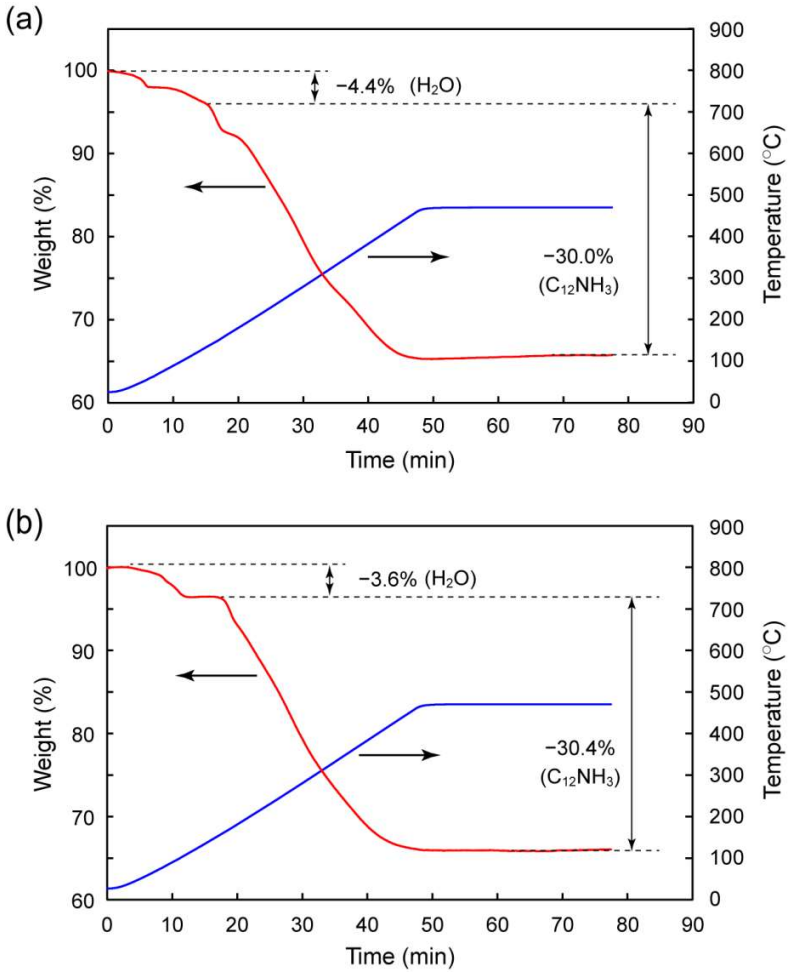


Figure S2. TG profiles of $C_{12}NH_3$-$CrMo_6$ hybrid crystal: **(a)** Precipitate of $C_{12}NH_3$-$CrMo_6$; **(b)** Single crystal of $C_{12}NH_3$-$CrMo_6$. Conditions: rt – 500 °C (rate: 10 °C/min, 30 min hold at 500 °C), N_2 flow (100 mL/min).