

Poster Presentation

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A Series of 3D Porous sodium-lanthanide-oxalate framework

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A series of isomorphous lanthanide metal organic framework, $[\text{NaLn}(\mu\text{-OH})(\text{ox})_{1.5}] \cdot 2\text{H}_2\text{O}$ [Ln = Gd, Tb, Dy, Er, ox = oxalate] were obtained under hydrothermal conditions. All compounds crystallize in the tetragonal $I4/m$ space group and present 3D open frameworks consist of $[\text{Ln}_4(\mu_3\text{-OH})_4]$ cluster units and Na(I) ions linked by bridging ox ligands. Furthermore, the photoluminescent properties of compound Tb^{3+} and magnetic properties of compounds Gd^{3+} and Dy^{3+} were also investigated.

Keywords: [Lanthanide MOFs](#), [Luminescence](#), [magnetic](#)