Halide assisted formations of polymeric ethylenediaminetetraacetato lead(II) complexes

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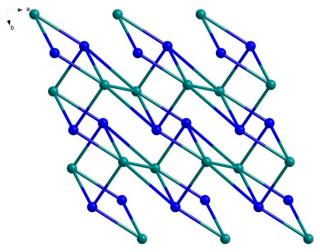


Fig. S1Schematic description of the equivalent topology framework with a 5-connected uninodal SP type 2-periodic net topological motif considering the Pb(1)-edta mononuclear units and Pb(2) atoms as connected nodes in **1**. Color codes: sky blue for Pb(1)-edta mononuclear units 5-connected nodes, green for the Pb(2) 5-connected nodes.

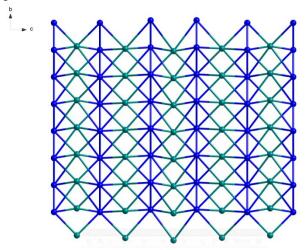


Fig. S2Schematic description of the equivalent topology framework with a 6,8-connected dinodal topological motif considering the Pb(1)-edta, Pb(3)-edta mononuclear units and Pb(2), Pb(4) atoms as connected nodes in **2**. Color codes: sky blue for Pb(1)-edta and Pb(3)-edta mononuclear units 8-connected nodes, green for the Pb(2) and Pb(4) 6-connected nodes.

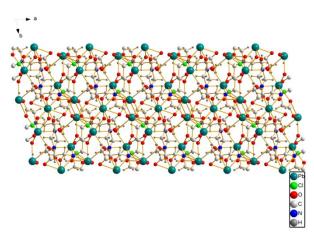


Fig. S3 2D layer of $Pb_n[Pb(edta)Pb(H_2O)Cl]_{2n} \cdot 2nH_2O$ (3) in the view parallels to the *ab* plane

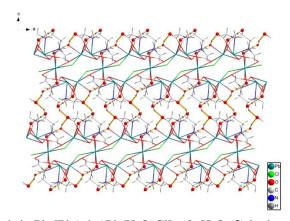


Fig. S4Hydrogen bonds in $Pb_n[Pb(edta)Pb(H_2O)Cl]_{2n} \cdot 2nH_2O$ (3) in the view parallels to the *ac* plane

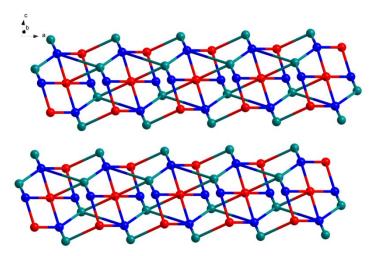


Fig. S5 Schematic description of the equivalent topology framework with a 4,5,6-connected 3-nodal topological motif considering the Pb(1)-edta mononuclear units, Pb(2) and Pb(3) atoms as connected nodes in **3** and **4**. Color codes: sky blue for Pb(1)-edta mononuclear units 5-connected nodes, green for the Pb(2) 4-connected nodes, red for the Pb(3) 6-connected nodes.