

Supporting Information

**Two new oxyiodoplumbates: the unique 3-D hybrid oxyiodo-plumbate based on  
neutral 2-D  $[\text{Pb}_2\text{I}_4]_n$  layers**

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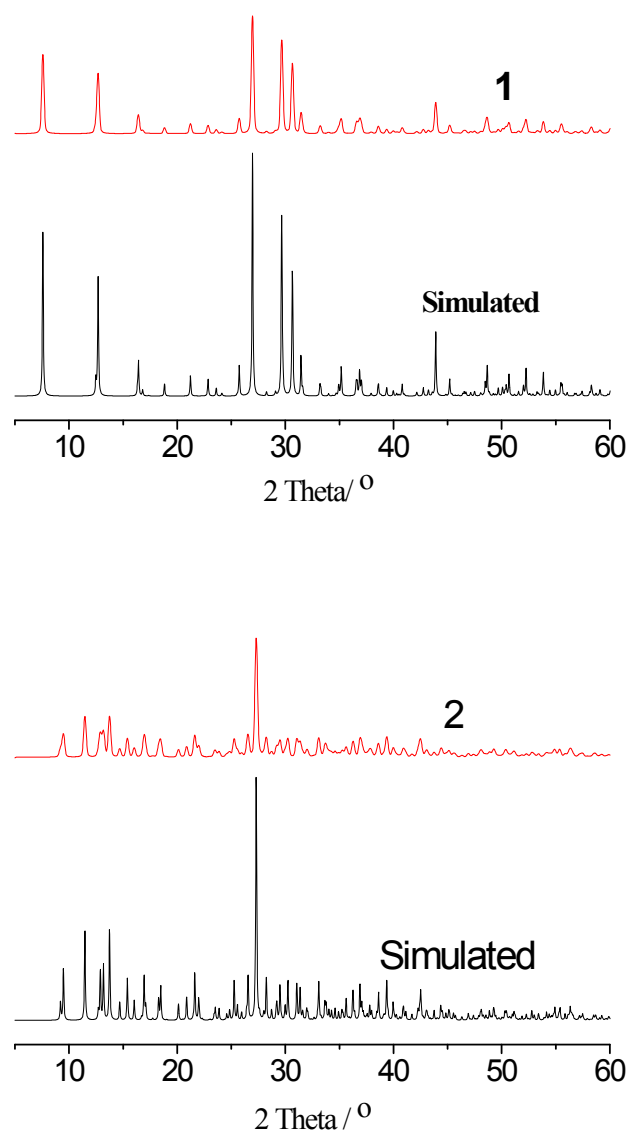


Fig. S1 Simulated and experimental powder XRD patterns of **1** and **2**.

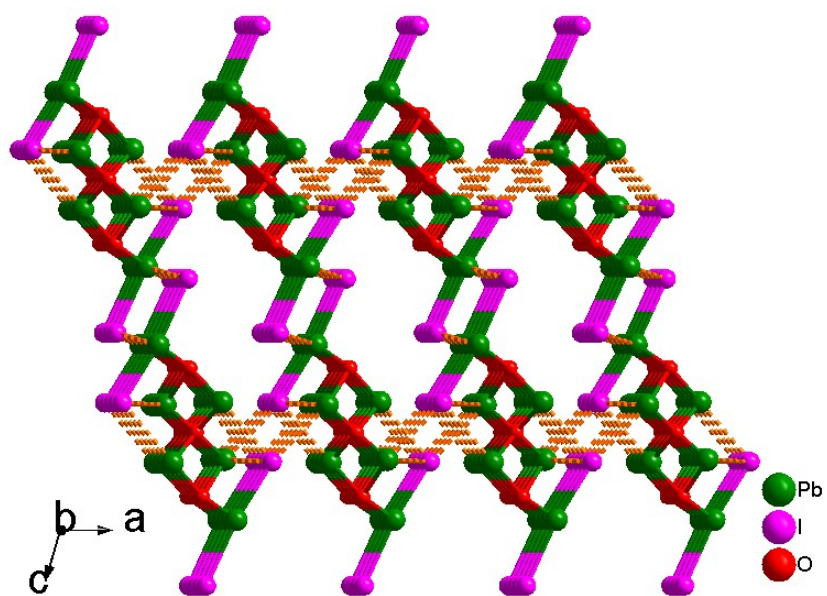


Fig. S2 3-D supramolecular network structure in **1**.

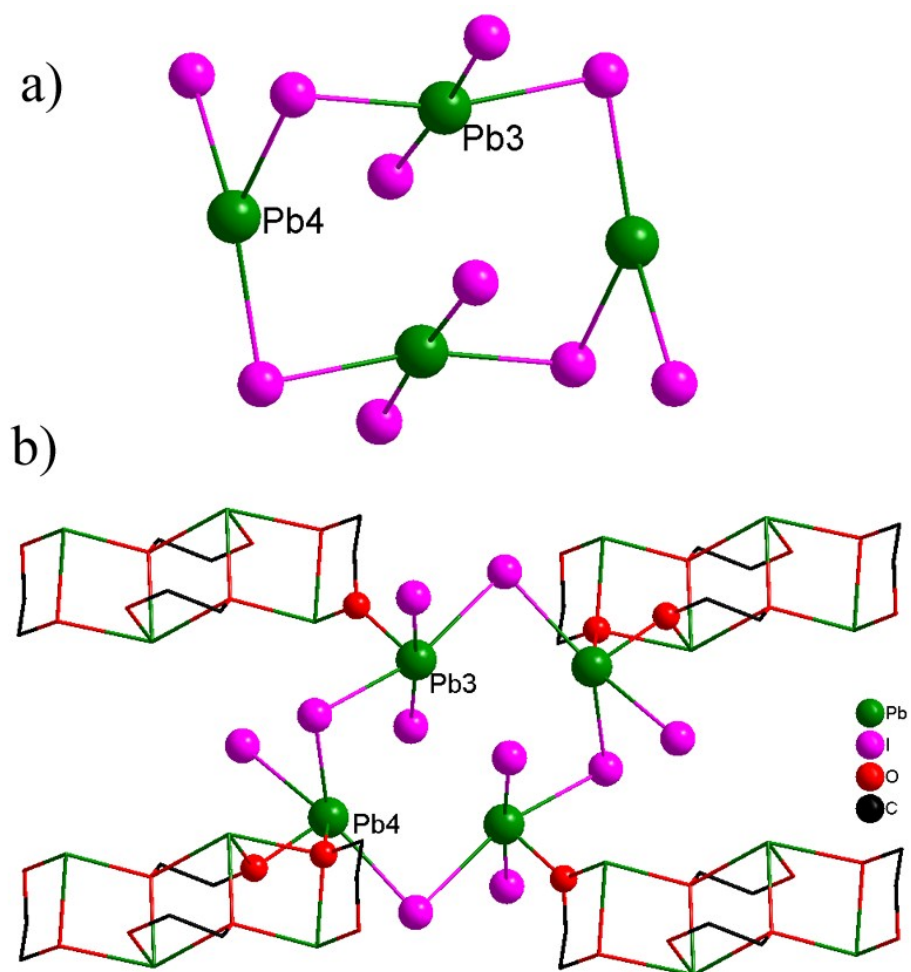


Fig. S3 (a)  $[\text{Pb}_4\text{I}_{10}]$  cluster in **2**, (b) each  $[\text{Pb}_4\text{I}_{10}]$  cluster linking with four tetra-nuclear  $[\text{Pb}_4\text{L}_4]$  complexes.