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**Supporting Information** 

## Two new oxyiodoplumbates: the unique 3-D hybrid oxyiodo-plumbate based on

## neutral 2-D [Pb<sub>2</sub>I<sub>4</sub>]<sub>n</sub> layers

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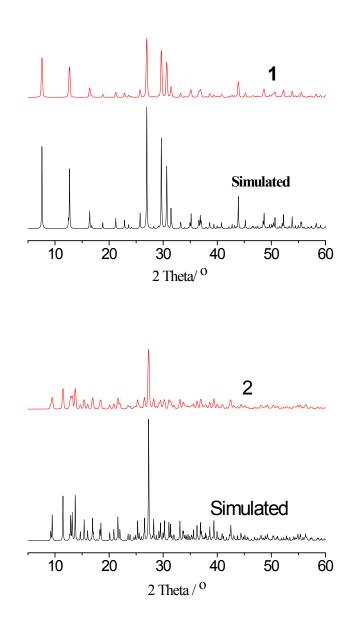


Fig. S1 Simulated and experimental powder XRD patterns of 1 and 2.

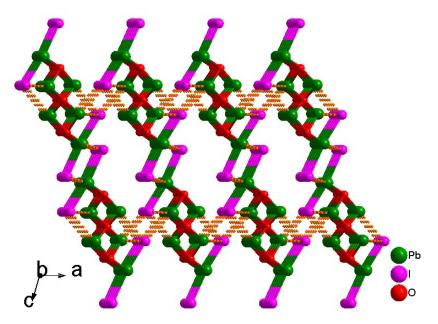


Fig. S2 3-D supramolecular network structure in 1.

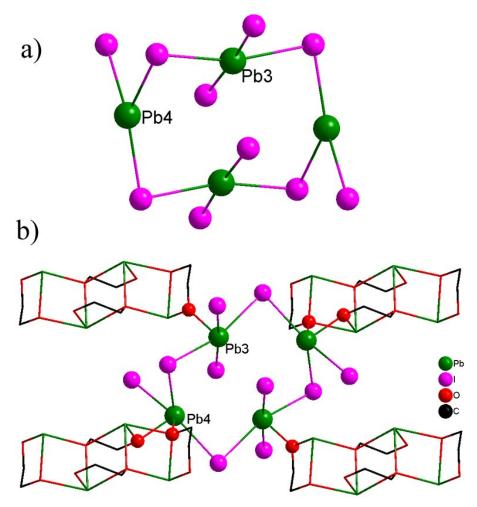


Fig. S3 (a) [Pb<sub>4</sub>I<sub>10</sub>] cluster in **2**, (b) each [Pb<sub>4</sub>I<sub>10</sub>] cluster linking with four tetra-nulear [Pb<sub>4</sub>L<sub>4</sub>] complexes.