

Supporting information

Room temperature conversion of metal oxides (MO, M= Zn, Cd and Mg) to peroxides: insight into a novel, scalable and recyclable synthesis leading to their lowest decomposition temperatures

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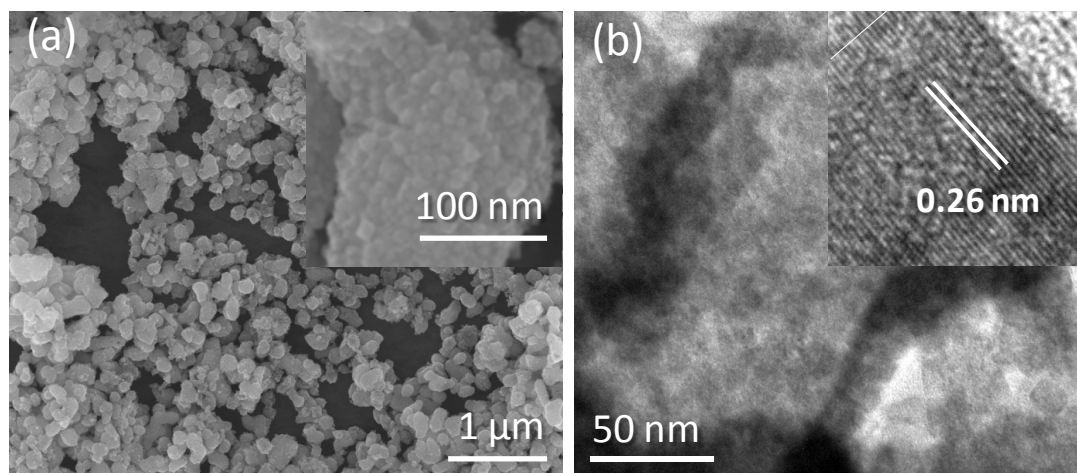


Figure S1: SEM and TEM images of the as prepared CdO_2 nanocrystals Obtained by using CdO as precursor.

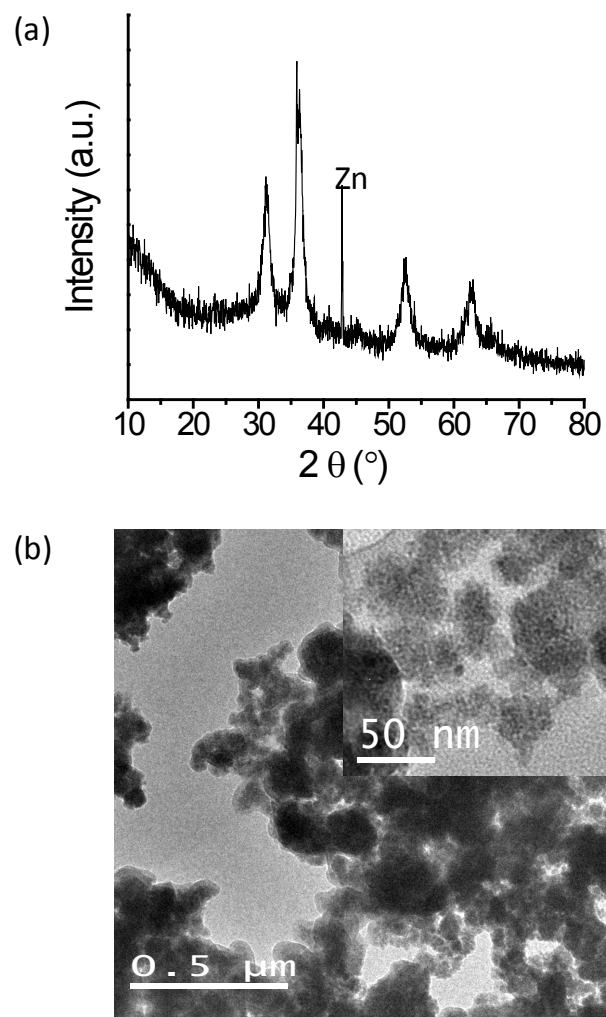


Figure S2: a) XRD pattern b) TEM images of the ZnO_2 nanocrystals obtained by reacting Zn ingots with H_2O_2 for 3 days at room temperature.

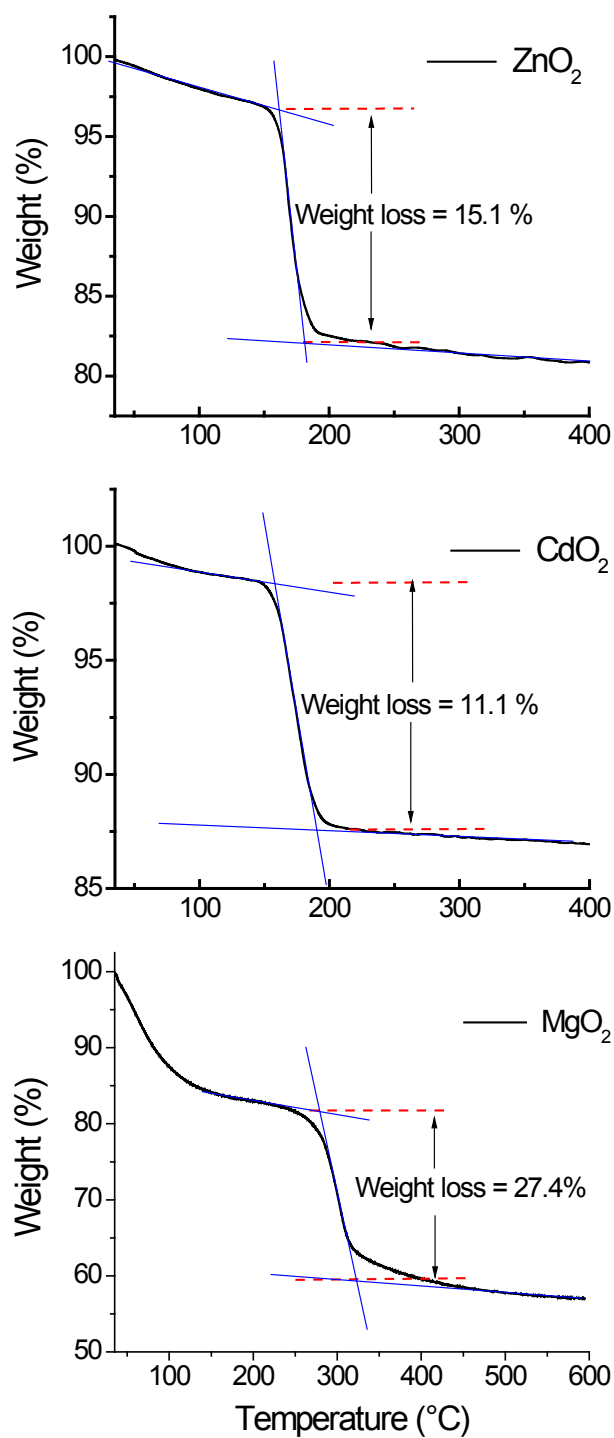


Figure S4: TGA plots of ZnO₂, CdO₂ and MgO₂ nanocrystals obtained from the corresponding metal oxides at ambient conditions.