

Supplementary Material to: Higher Alkene Hydroformylation Catalyzed by Rhodium Complexes Stabilized by Phosphine Functionalized Phosphonium Ionic Liquids: Influence of the Phosphonium Headgroup on Catalytic Activity

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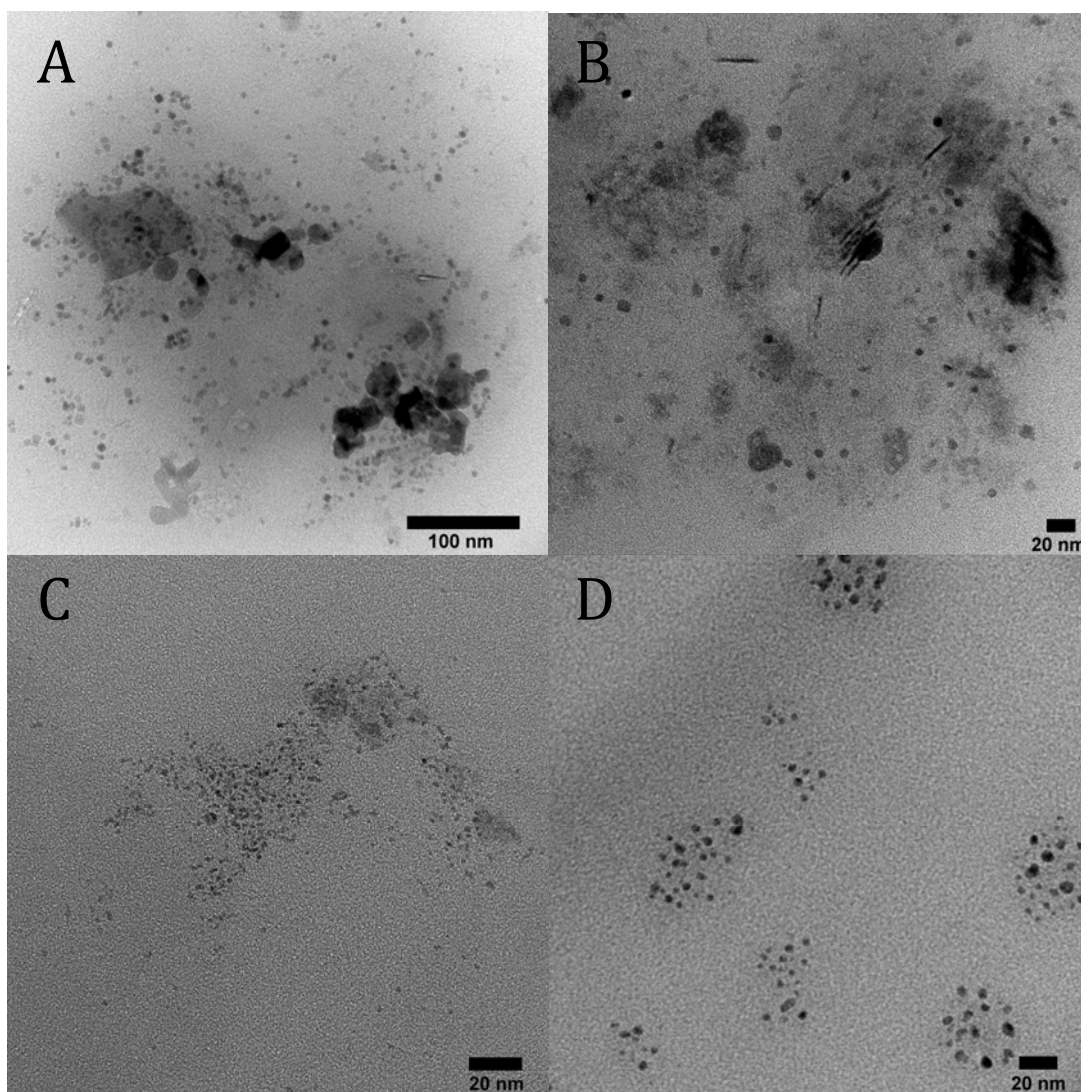


Fig. S1. TEM images of catalyst solutions prepared from $[\text{Rh}(\text{acac})(\text{CO})_2]$ and PFIL **1** in $[\text{TBP}]\text{NTf}_2$ after one catalytic cycle having a PFIL **1**/Rh ratio of (A) 2, (B) 4, (C) 8 and (D) 12.

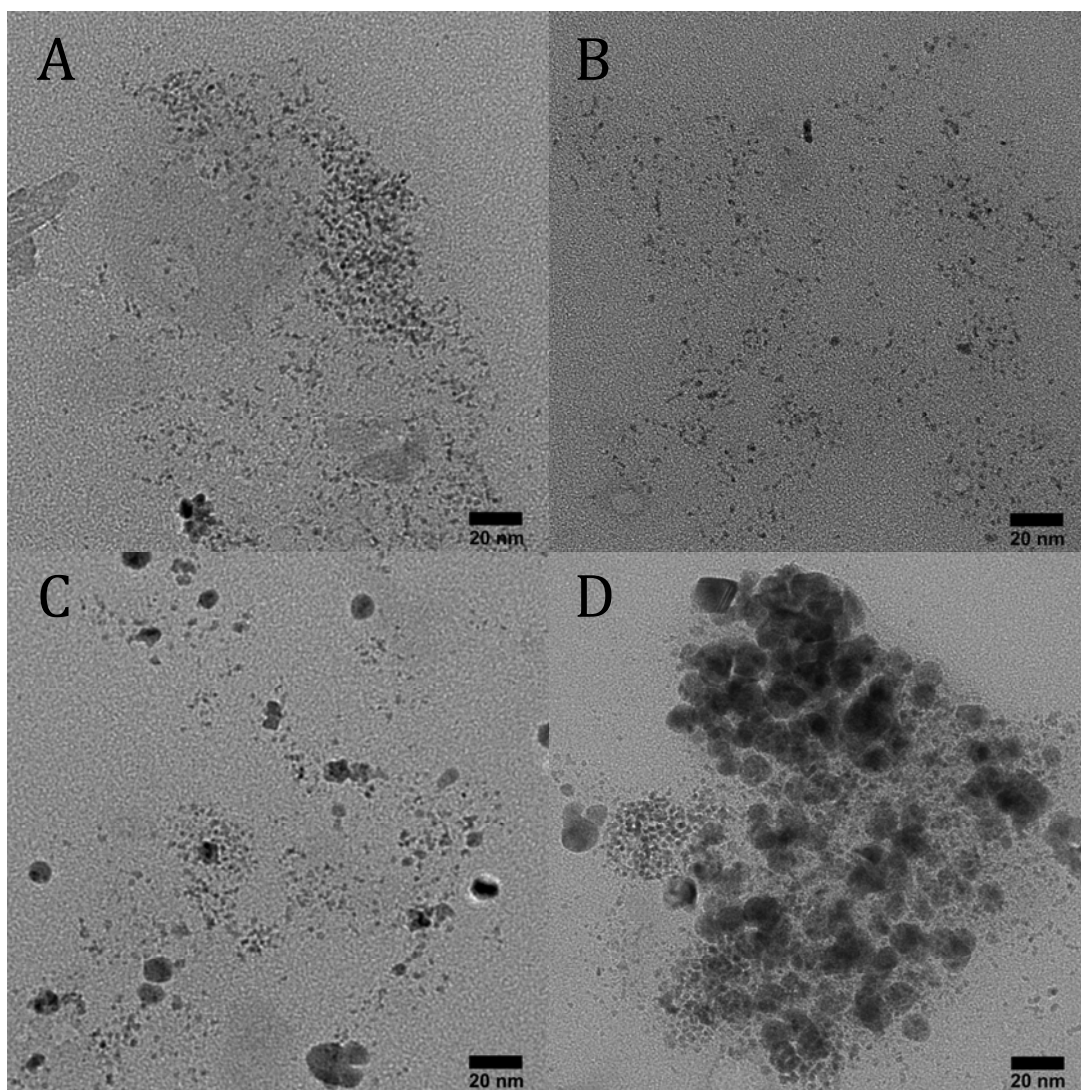


Fig. S2. TEM images of catalyst solutions prepared from $[\text{Rh}(\text{acac})(\text{CO})_2]$ in $[\text{TBP}]\text{NTf}_2$ after five catalytic cycles stabilizing by (A) PFIL **1**, (B) PFIL **2**, (C) PFIL **3** and (D) PPh_3 (for phosphine/Rh = 8).