Supporting information

## Ruthenium and palladium bimetallic nanoparticles achieving functional parity with a rhodium cocatalyst for TiO<sub>2</sub>photocatalyzed ring hydrogenation of benzoic acid

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**Figure S2.** Re-used experiments of photocatalytic hydrogenation of BA to CCA over Ru(1.0)- $Pd(2.0)/TiO_2$  (100 mg) in the presence of OA (1200 µmol) for 6 h.

## **Supplementary Figures**



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