Supporting Information

Light-driving integration of reducing nitrobenzene to aniline and transforming glycerol into valuable chemicals in water

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1. Figure S1

Figure S1. TEM images of various supported catalysts. (a) Pd/TiO₂(P-25), (b) Pt/TiO₂(P-25), (c) Rh/TiO₂(P-25), (d) Ru/TiO₂(P-25), (e) Pd/C₃N₄, (f) Pd/SiO₂ and (g) Pd/C.
2. **Figure S2**

![Figure S2](image)

**Figure S2.** The conversion of glycerol and isopropanol in the photoreduction of nitrobenzene in glycerol/isopropanol aqueous solution. Reaction conditions: glycerol concentration 0.5 mol/L; isopropanol concentration 0.5 mol/L; water 5 mL; 25 mg Pd/TiO$_2$ (P-25) with 2 wt% Pd; temperature 25 °C.

3. **Figure S3**

![Figure S3](image)

**Figure S3.** XRD patterns of the TiO$_2$ with different crystal phases.