**Supporting Information**

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Author(s): Choi, Jina; Park, Hyunwoong; Hoffmann, Michael

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**Figure S1.** Energy dispersive X-ray spectroscopy (EDS) for A) Pt(II)-TiO$_2$ and B) La-TiO$_2$. The spectrum of Pt(II)-doped TiO$_2$ showed no apparent signals for elemental Pt, which indicates that Pt ions or Pt metal are not located on or near the surface and that they are well incorporated into TiO$_2$ lattice. In case of the La-doped TiO$_2$ material, 0.5 ~ 1.0 wt.% of La was detected; this indicates that La ions are located in the near surface region.