Supporting information

Photoassist-phosphorylated TiO_2 as a catalyst for direct formation of 5-(hydroxymethyl)furfural from glucose

Masashi Hattori, a Keigo Kamata, a and Michikazu Hara a,b,*

^aLaboratory for Materials and Structures, Institute of Innovative Research, Tokyo Institute of Technology, 4259-R3-33 Nagatsuta, Midori-ku, Yokohama 226-8503, Japan
^bJST, Advanced Low Carbon Technology Research and Development Program (ALCA), 4-1-8 Honcho, Kawaguchi 332-0012, Japan

Corresponding author * E-mail: mhara@msl.titech.ac.jp;

Supplementary Figures



Fig. S1 NH₃-TPD profiles for (A) TiO_2 and (B) P-TiO₂ prepared by immersing 5 days in 1 M H₃PO₄ solution.



Fig. S2 SEM images of (A) TiO_2 and (B) P- TiO_2 prepared by immersing 5 days in 1 M H_3PO_4 solution.



Fig. S3 Difference FT-IR spectra of benzaldehyde-adsorbed catalysts at room temperature.