**Fig. S1** Time courses of the amounts of chlorobenzene (squares), benzene (triangles), chloride ion (closed circles) in a 2-propanol suspension of 1.0 wt% Pd-TiO₂ in the absence of NaOH under UV light irradiation.

**Fig. S2** XRD patterns of fresh LTA-type zeolite and the recovered mixture of LTA-type zeolite and Pd-TiO₂ after the photocatalytic reaction.