

Electronic Supplementary Information

Evidence for light-induced oxygen exchange in the oxidation of liquid hydrocarbons on oxygen 18-labelled titanium dioxide

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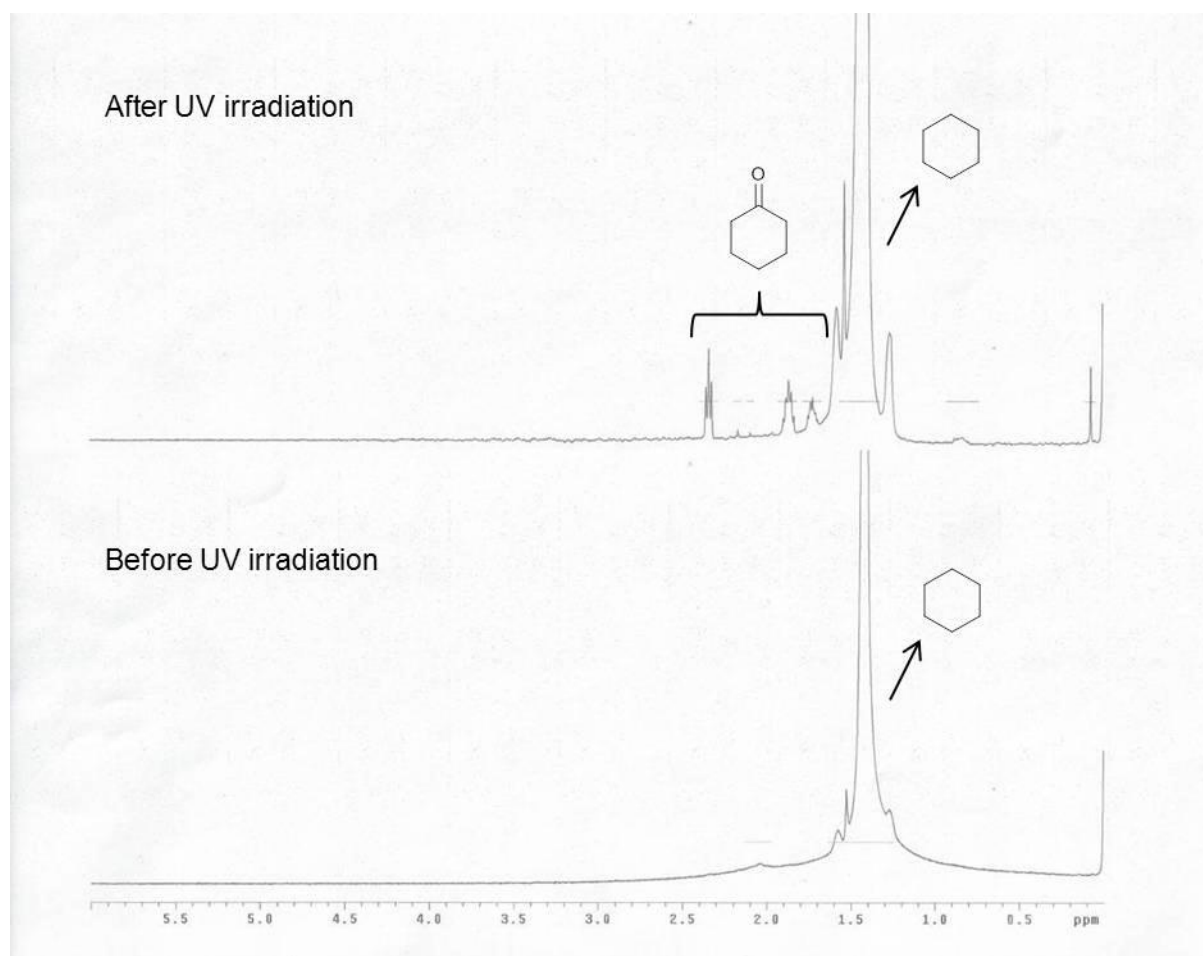


Fig. S1 ^1H NMR spectra before and after UV irradiation of cyclohexane using ^{18}O -labelled TiO_2 as a catalyst.

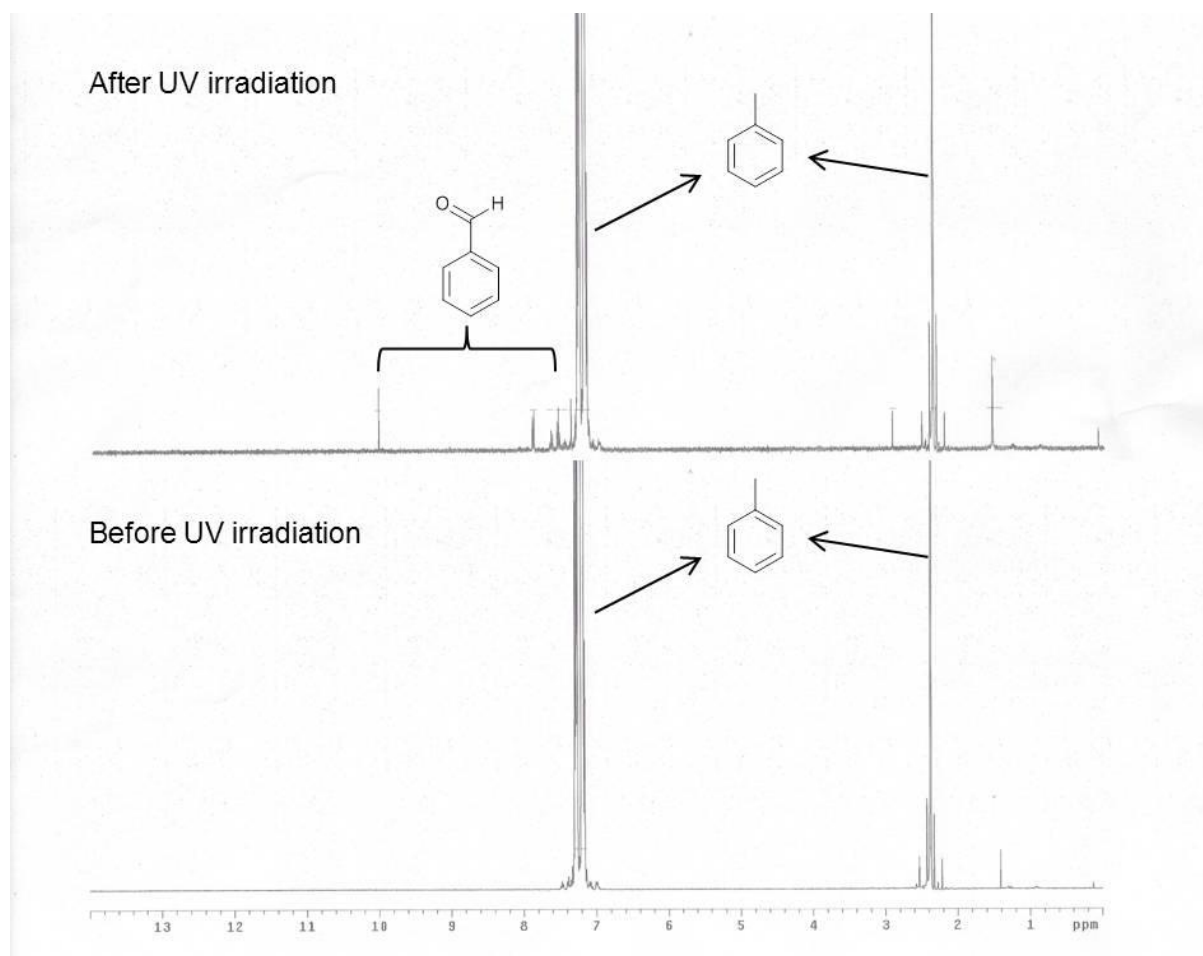


Fig. S2 ^1H NMR spectra before and after UV irradiation of toluene using ^{18}O -labelled TiO_2 as a catalyst.

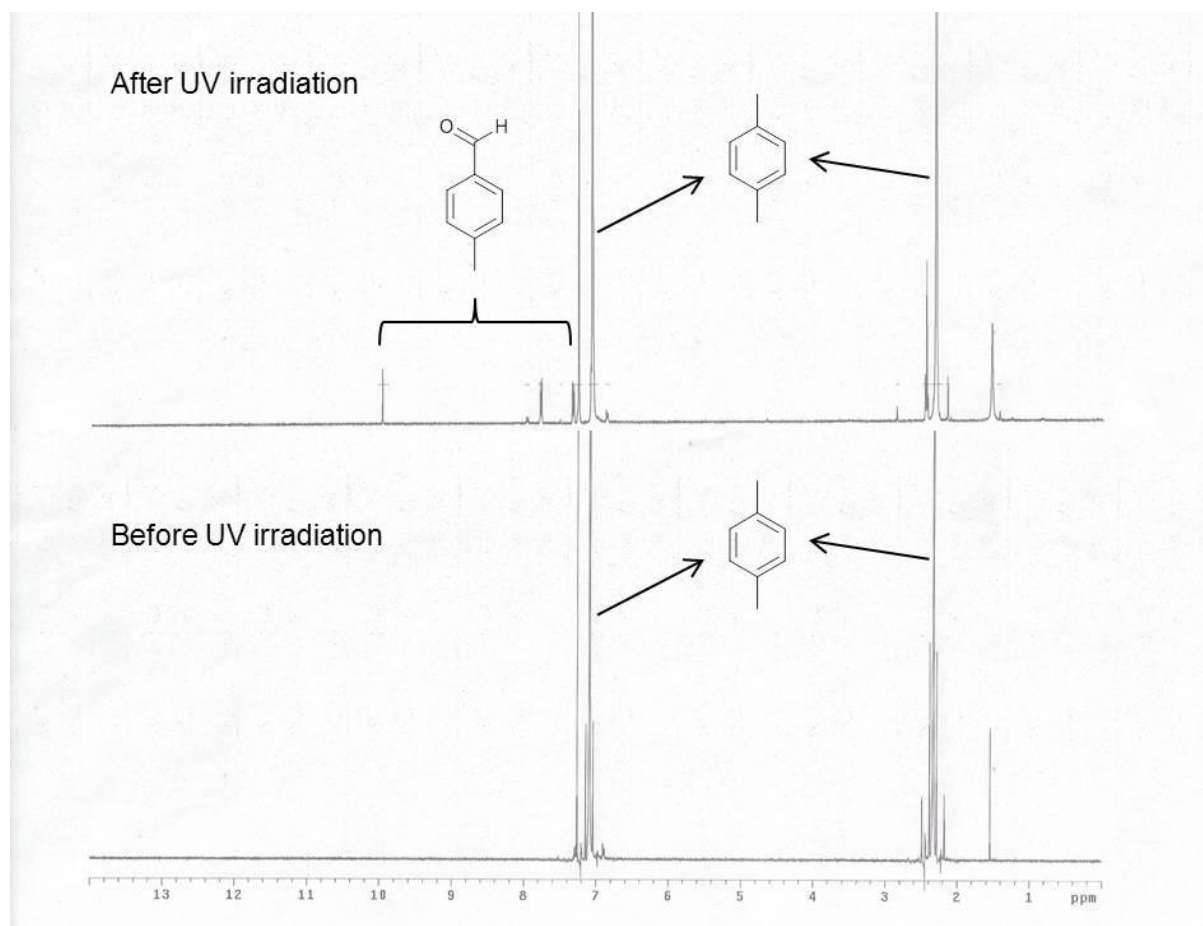


Fig. S3 ^1H NMR spectra before and after UV irradiation of p-xylene using ^{18}O -labelled TiO_2 as a catalyst.

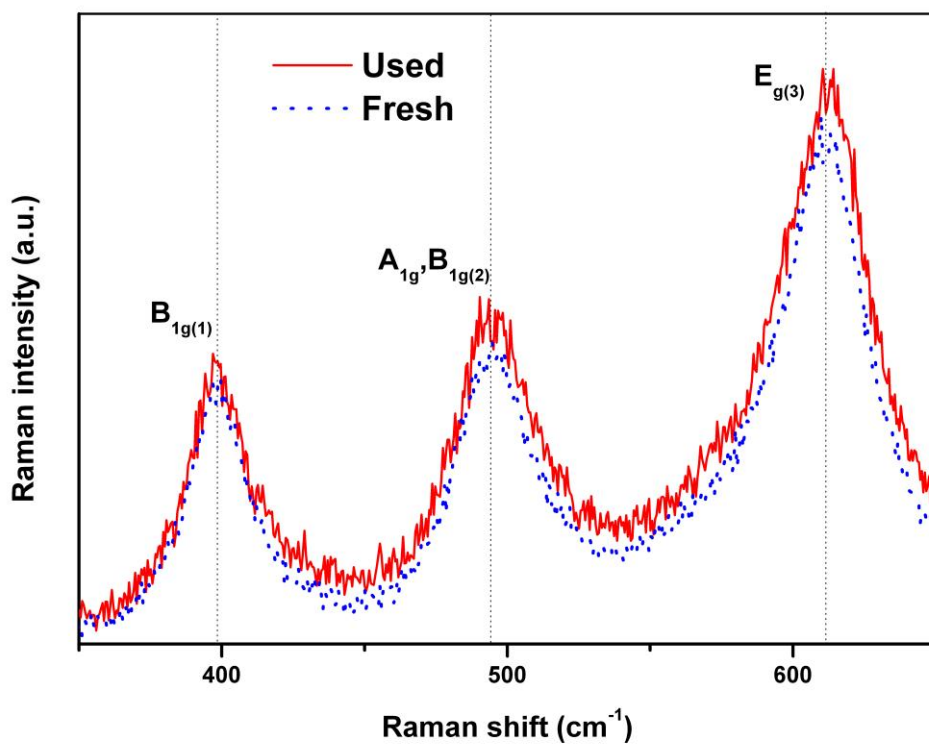


Fig. S4 Raman spectra of fresh ¹⁸O-labelled TiO₂ (dashed blue curve) and used ¹⁸O-labelled TiO₂ (red curve).