

## Supporting information

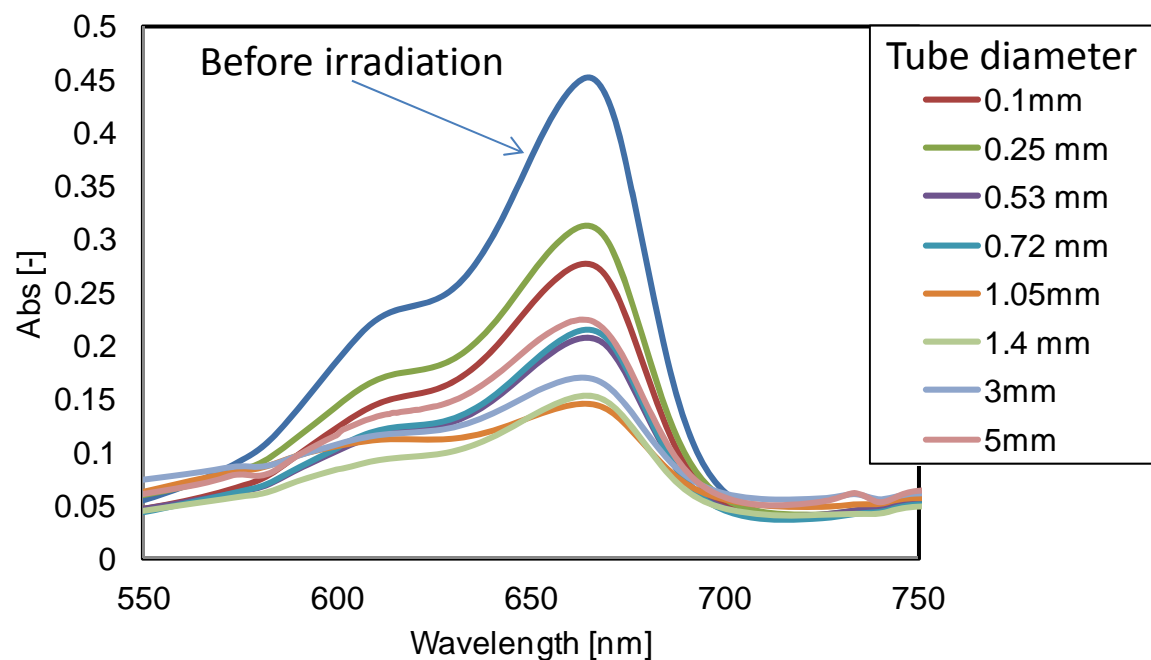


Fig.S1 The dependence of the inner diameter of photocatalytic microreactors on the absorption spectra of methylene blue solutions (10  $\mu\text{M}$ ) after 1.5 hours irradiation of sunlight.

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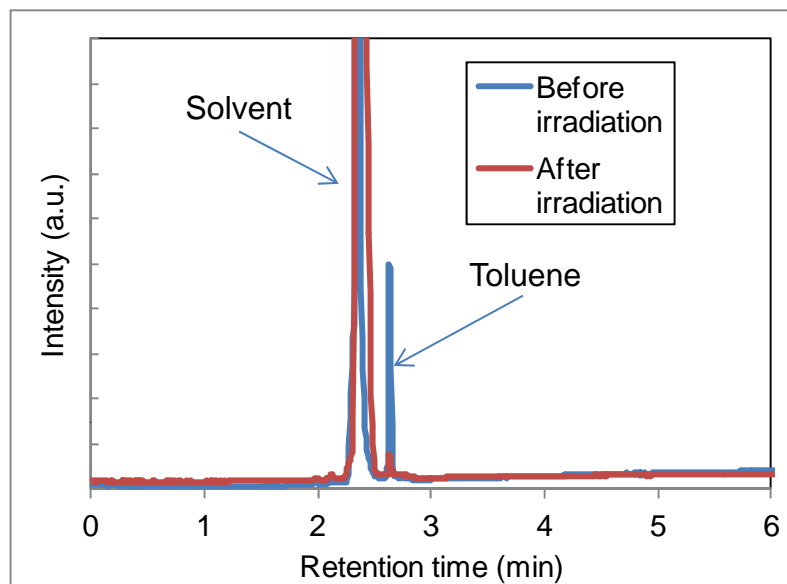


Fig.S2 HPLC charts for an aqueous toluene solution (1 mM) before and after irradiation of sunlight for 3 hours.