Supplementary Materials: TiO2-SiO2-PMMA **Terpolymer Floating Device for the Photocatalytic** Remediation of Water and Gas Phase Pollutants

Valentina Sabatini *, Luca Rimoldi *, Laura Tripaldi, Daniela Meroni *, Hermes Farina, Marco Ortenzi and Silvia Ardizzone

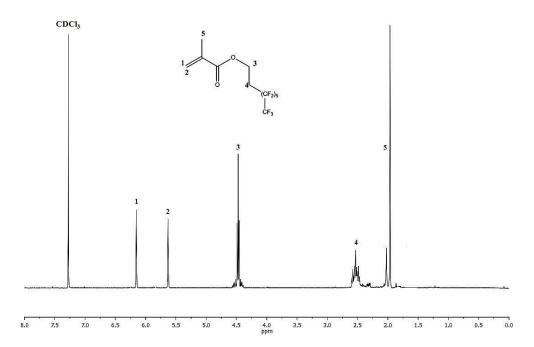


Figure S1. ¹H NMR spectrum of POMA monomer.

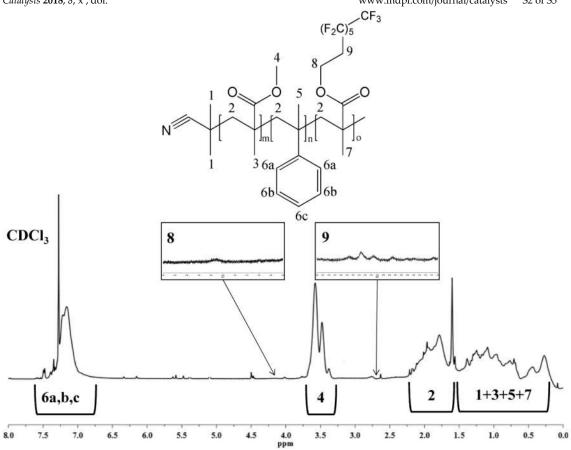


Figure S2. 1 H NMR spectrum of MMA_ α -methylstyrene_POMA polymer.

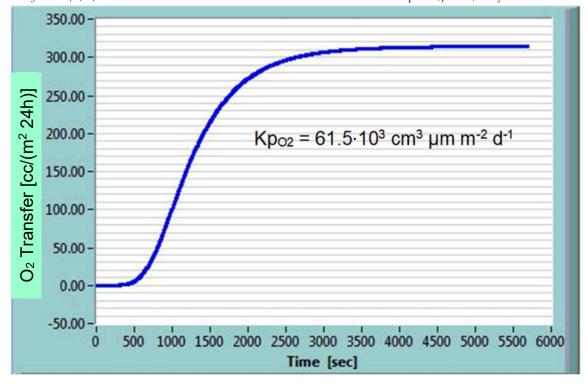


Figure S3. O2 transfer with respect to time of the synthesized MMA_ α -methylstyrene_POMA.

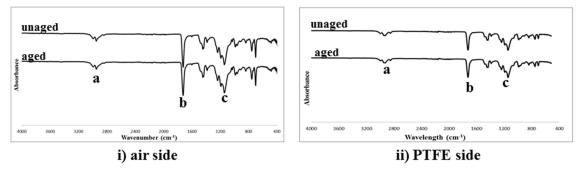


Figure S4. FT-IR spectra of MMA_ α -methylstyrene_POMA collected before and after the UV stability test at the air (i) and PTFE (ii) side.

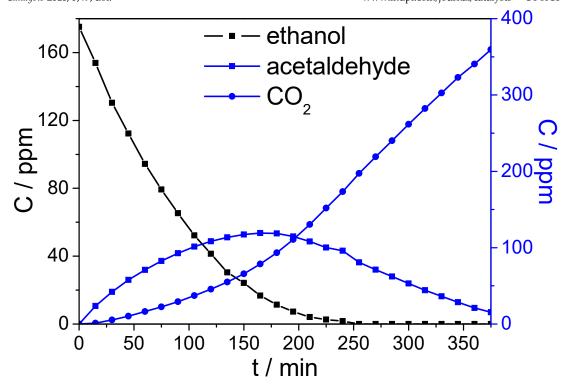


Figure S5. Ethanol disappearance and acetaldehyde and CO2 formation during the photocatalytic test under UV irradiation.

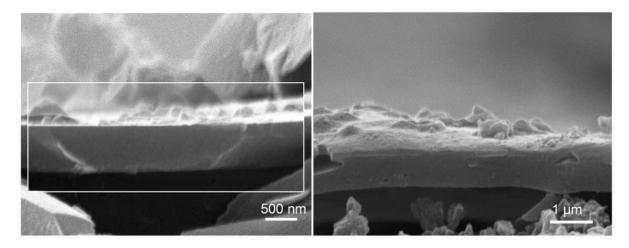


Figure S6. Cross-sectional SEM images after UV irradiation for over 15 hours in working conditions.