Electronic Supplementary Material (ESI) for RSC Advances.

Visible Light Driven Reform of Wasted Plastics to Generate Green Hydrogen over Mesoporous $ZnIn_2S_4$

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Supplementary Figures

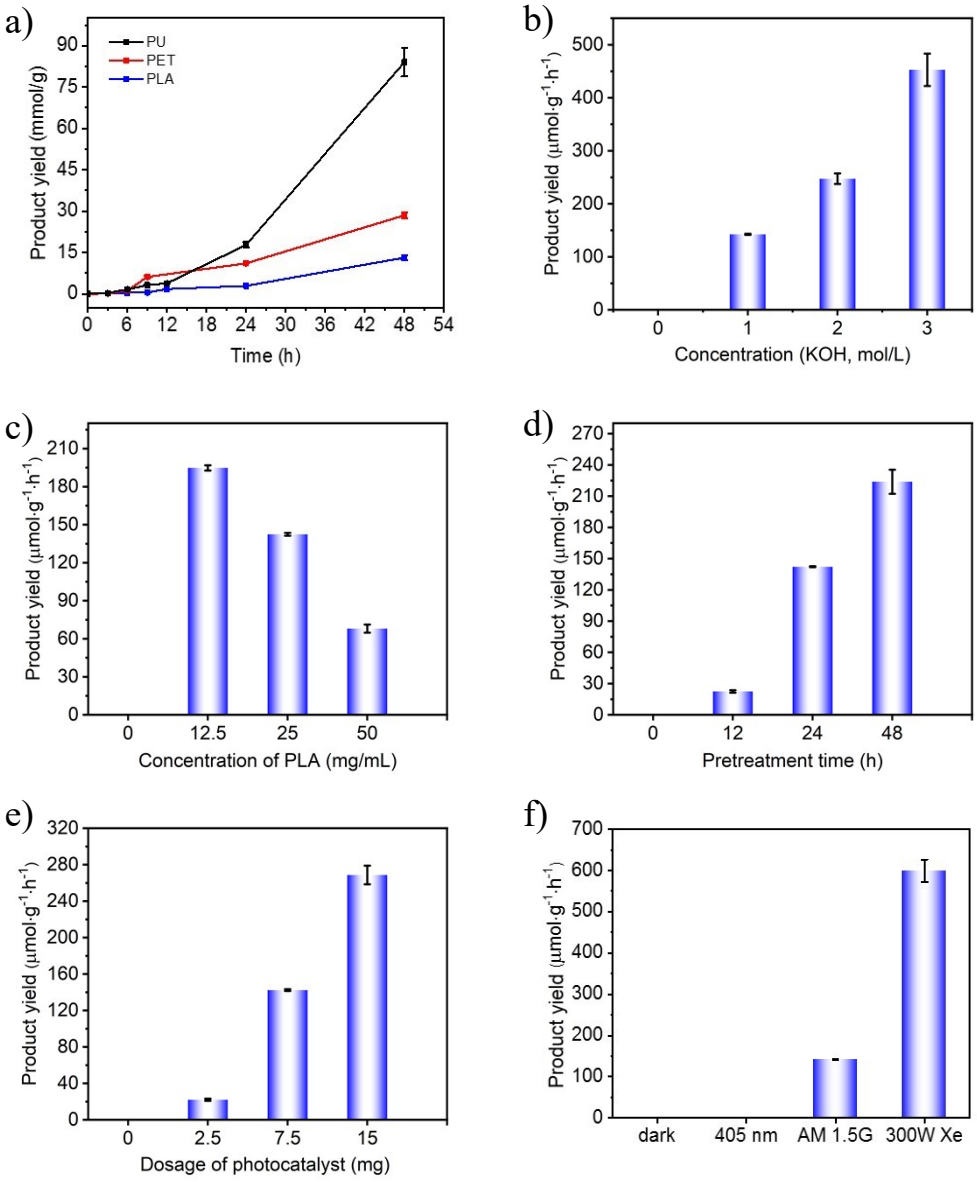

Fig. S1 a-f) Effects of different reaction conditions on the photocatalytic degradation efficiency of polymers. a) Reaction time; b) Concentration of KOH; c) Concentration of PLA; d) Pretreatment time of polymer; e) Dosage of photocatalyst. f) Wavelength of light.

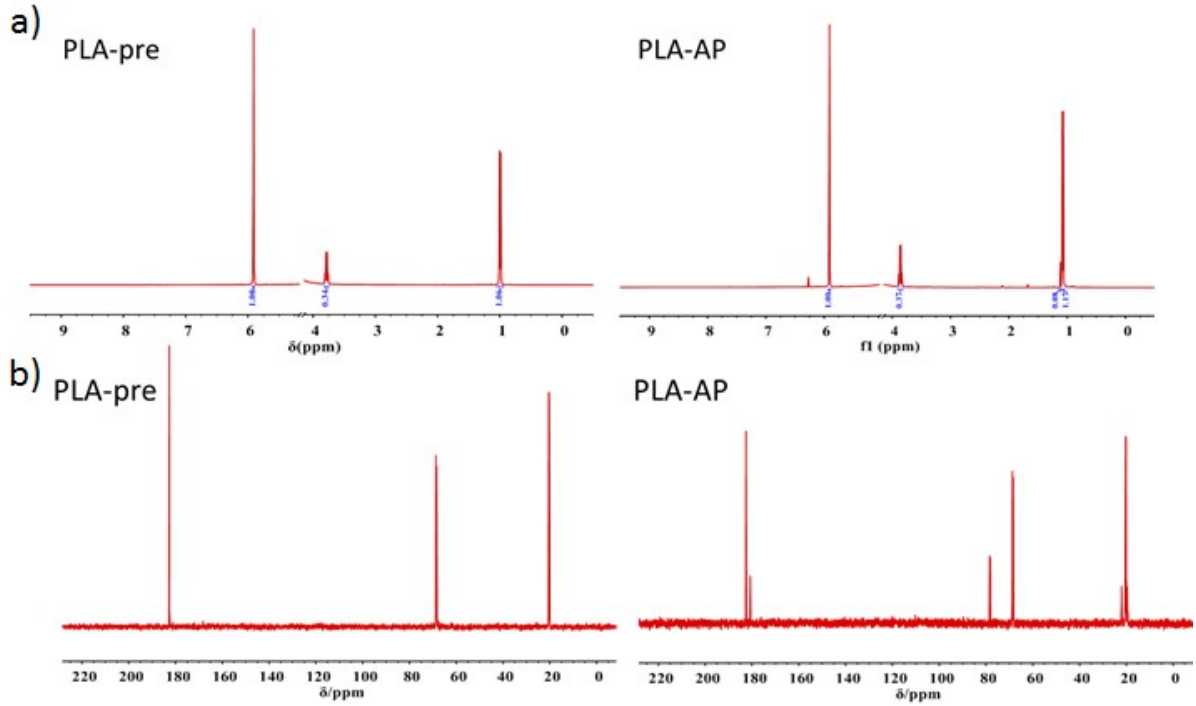

Fig. S2 a) ^{1}H NMR spectra of PLA, before photocatalytic degradation (PLA-pre), after photocatalytic degradation (PLA-AP); b) ^{13}C NMR spectra of PLA, before photocatalytic degradation (PLA-pre), after photocatalytic degradation (PLA-AP).

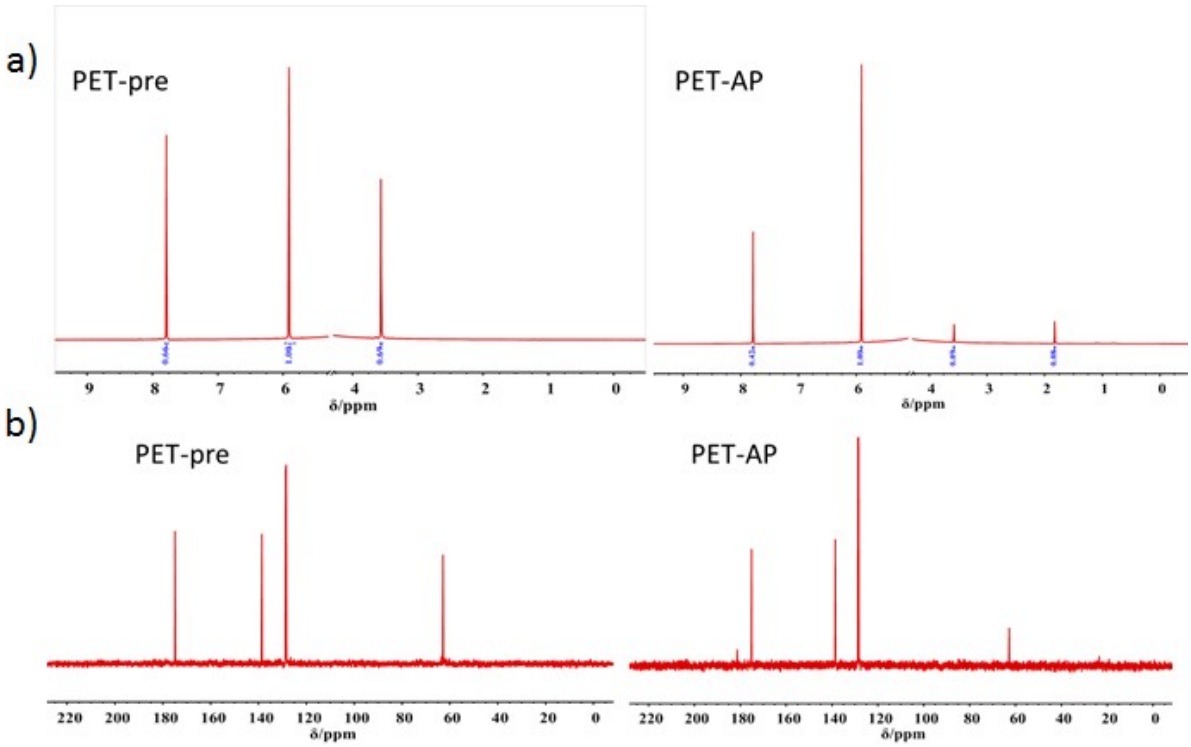

Fig. S3 a) ^{1}H NMR spectra of PET, before photocatalytic degradation (PET-pre), after photocatalytic degradation (PET-AP); b) ^{13}C NMR spectra of PET, before photocatalytic degradation (PET-pre), after photocatalytic degradation (PET-AP).

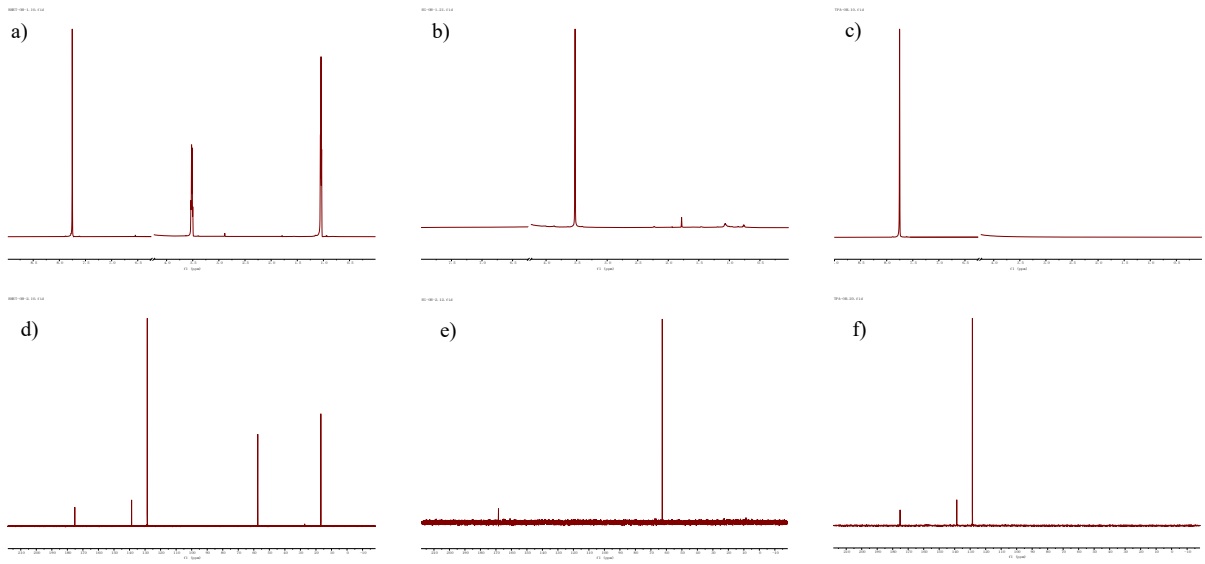

Fig. S4 ^{1}H NMR spectra of a) BHET, b) EG and c) TPA; ^{13}C NMR spectra of d) BHET, e) EG and f) TPA.

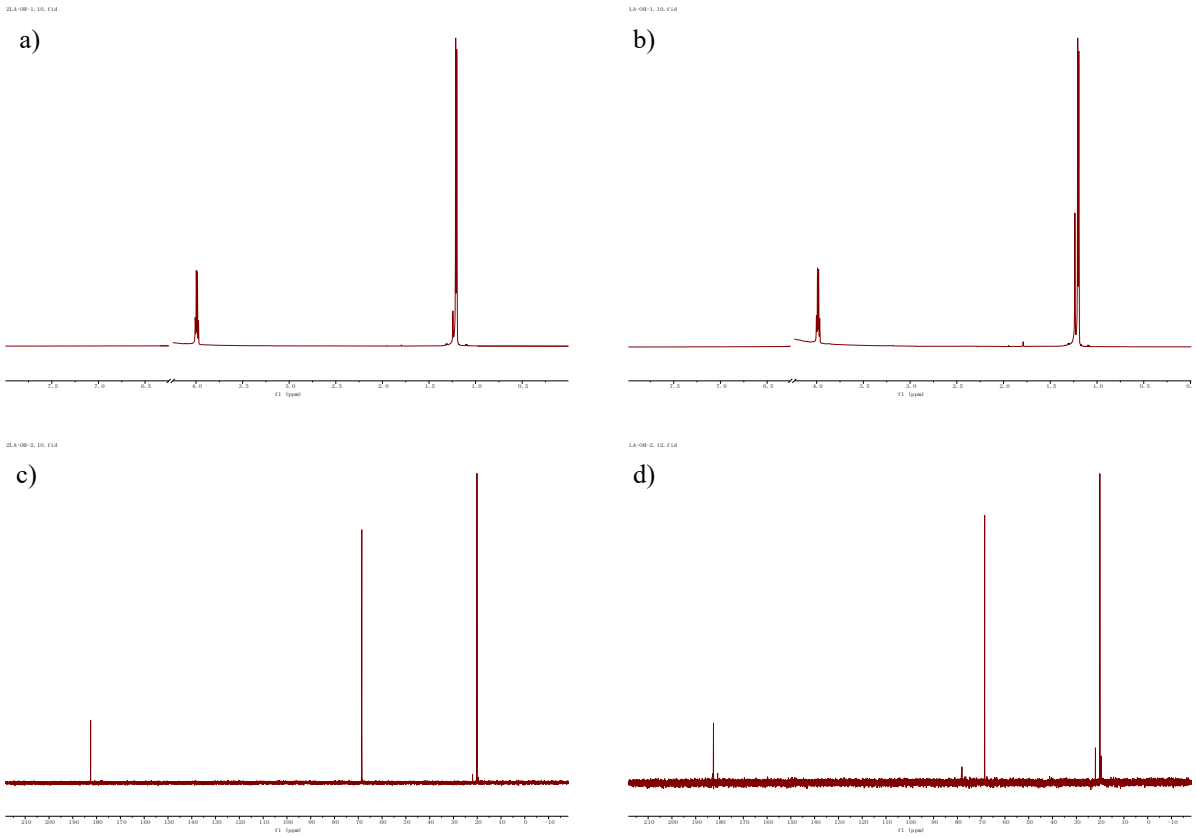

Fig. S5 ^{1}H NMR spectra of a) lactide and b) lactic acid; ^{13}C NMR spectra of c) lactide and d) lactic acid.