

## Combination of a bio-based polyphosphonate and modified graphene oxide toward superior flame retardant polylactic acid

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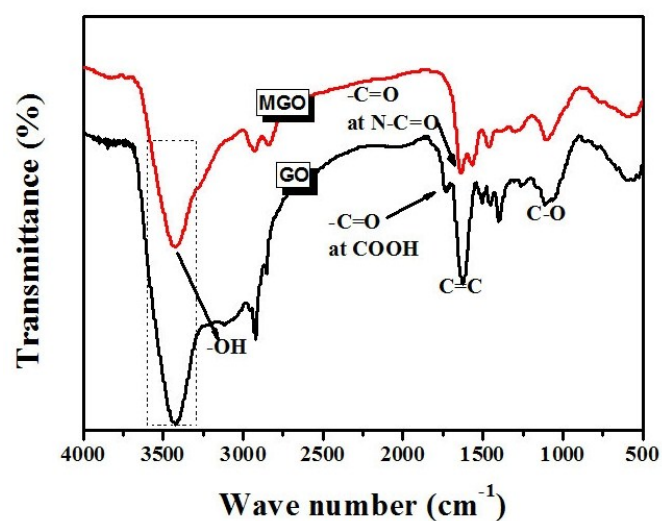


Fig. S1 FTIR spectra of GO and MGO

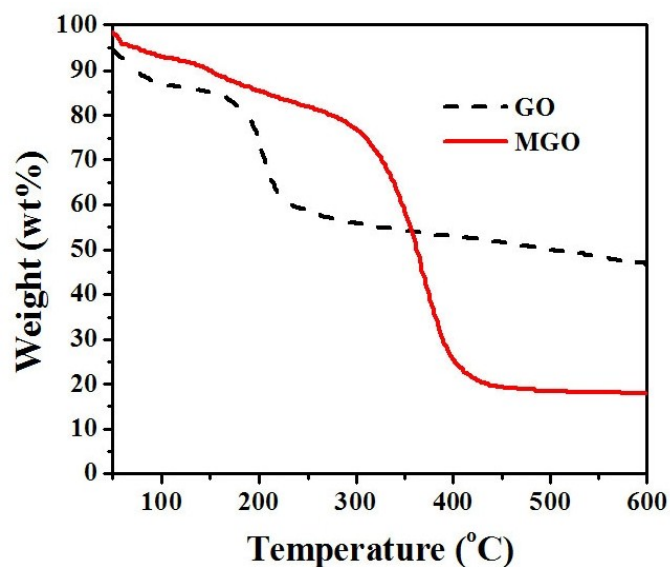


Fig. S2 TG curves of GO and MGO

Table S1 The impact strength of PLA and the flame retardant PLA

Sample	Impact strength kJ·m <sup>-2</sup>
PLA	2.06±0.46
PLA/3BPPT	1.46±0.05
PLA/2.7BPPT/0.3M-GO	1.60±0.07
PLA/2.4BPPT/0.6M-GO	1.70±0.10
PLA/2.1BPPT/0.9M-GO	1.67±0.09