Supporting information

Decoration of chitosan microspheres with Brønsted heteropolyacids and Lewis ion Ti: trifunctional catalysts for esterification to biodiesel

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Fig. S1 Nitrogen adsorption-desorption isotherms (a) and pore diameter distribution (b) of chitosan, HPW, Ti/chitosan and HPW (29 wt%)/Ti/chitosan.
Fig. S2 IR spectra of HPW (29 wt%)/Ti/chitosan before and after reaction.
Fig. S3 X-ray diffraction (XRD) patterns of HPW (29 wt%)/Ti/chitosan before and after reaction.
Fig. S4 Energy Dispersive X-ray spectrometry (EDS) elemental mapping of HPW (29 wt%)/Ti/chitosan (a) before and (b) after reaction.