

Supplementary information

Titanate Nanotubes-bonded organosulfonic acid as solid acid catalyst for synthesis of butyl levulinate

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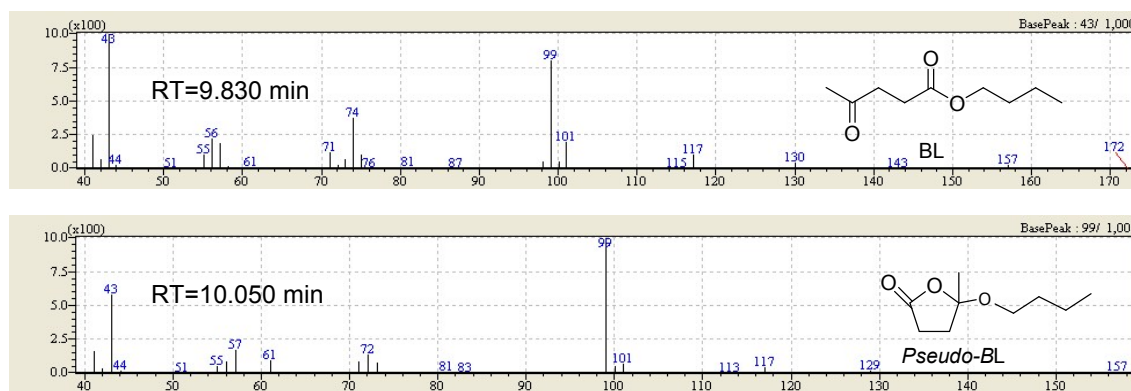
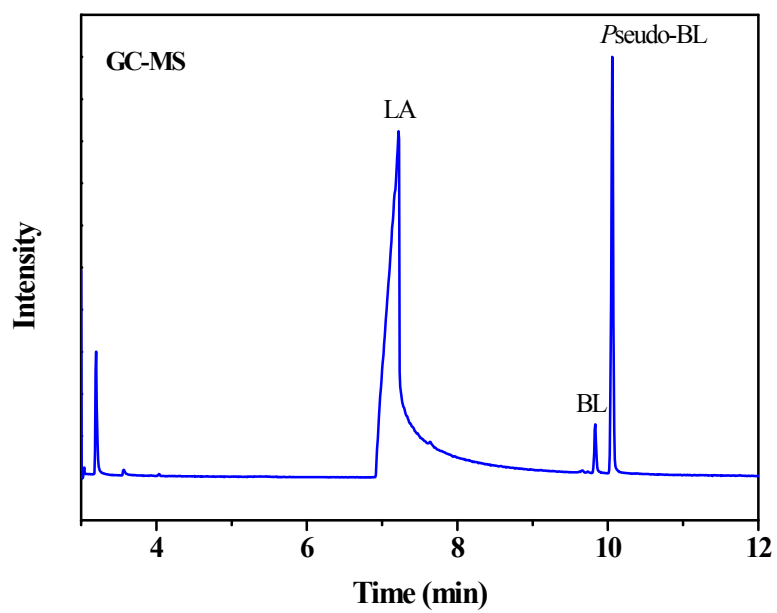


Fig.S1. Typical GC-MS spectra of BL and *Pseudo-BL*

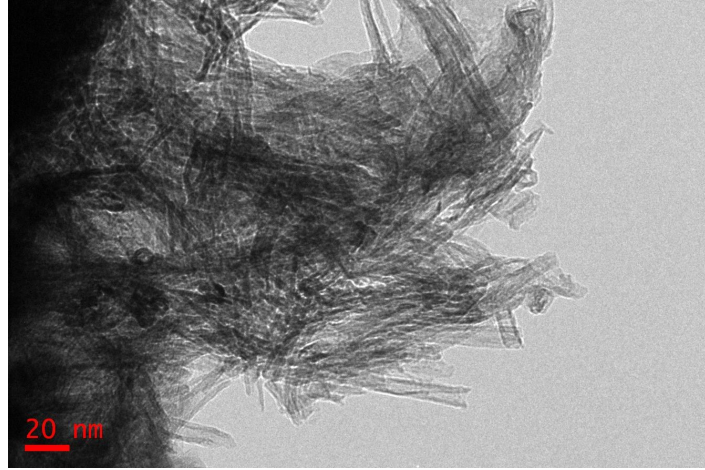


Fig.S2 TEM image of used TNTs-SO₃H

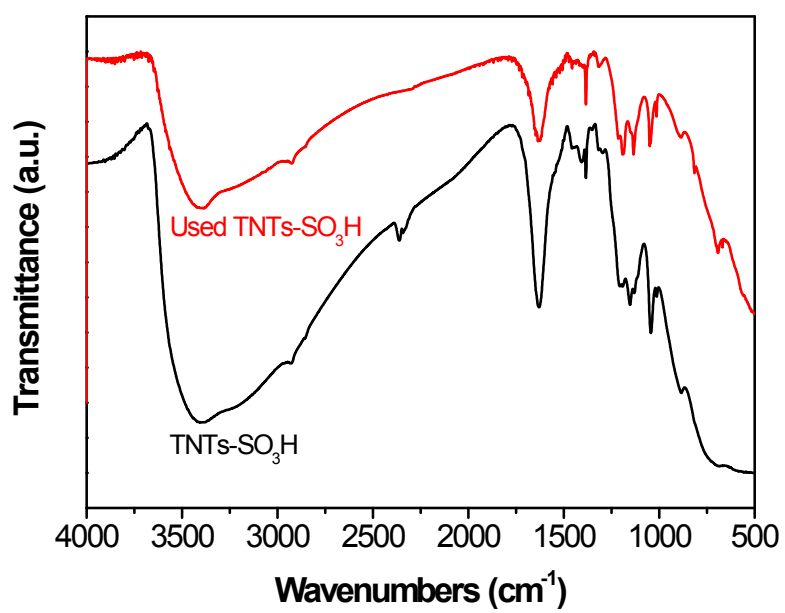


Fig.S3 FT-IR spectrum of TNTs-SO₃H and used TNTs-SO₃H