

Supporting Information

Table S1 Catalytic evaluation of different catalysts for esterification of FFAs and alcohols

	Catalysts	Acid	Alcohol	T(°C)	t(h)	FFAs Conv.(%)
Homogeneous	H ₂ SO ₄	FFAs	2-ethylhexanol	130	2	94.0
	Pb stearate	FFAs	Methanol	210	3.3	90.0
	Relite CFS	FFAs	Methanol	100	2	74.0
Heterogeneous	Bagasse carbon-based solid acid	FFAs	Methanol	66	4	91.4
	SO ₃ H-APC-6-160	FFAs	Methanol	70	6	89.7
	OMC-SO ₃ H	FFAs	Ethanol	80	10	73.6
	SO ₃ H-OMC(s)-6-160	FFAs	Methanol	70	6	93.8

Fig. S1 The relationship between FFAs conversion and density of -SO₃H groups

