

Supplementary Information

Cr/Al Oxide as Solid Acid Catalyst to Afford Babassu Biodiesel

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$$\text{TOF} = \frac{[\text{amount of products}]}{[\text{amount of active sites} \times \text{time}]}$$

$$\text{Amount of product} = \frac{\text{CMO (g)}}{\text{MMO (g mol}^{-1}) \times \text{CA (m}^2 \text{ g}^{-1}) \times \text{CM (g)} \times \text{TR (s)}}$$

where CMO = consumption of oil mass, MMO = molecular mass of oil, CA = catalyst area, CM = catalyst mass, TR = time reaction

$$\text{Amount of active sites} = \frac{\text{total acidity (}\mu\text{mol g}^{-1})}{\text{CA (m}^2 \text{ g}^{-1})}$$

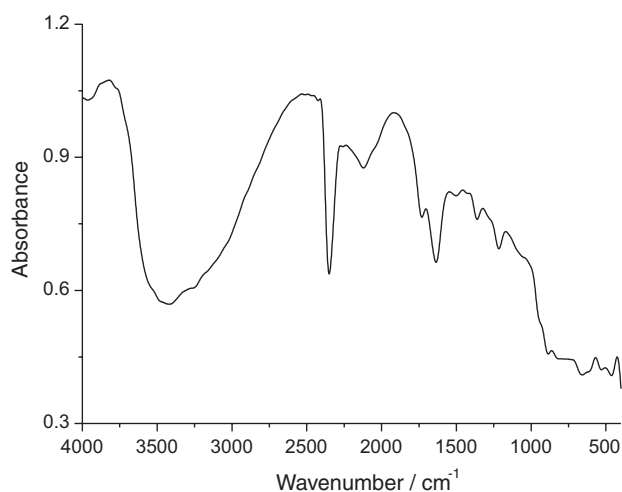


Figure S1. Infrared (KBr) spectrum of CRAL.

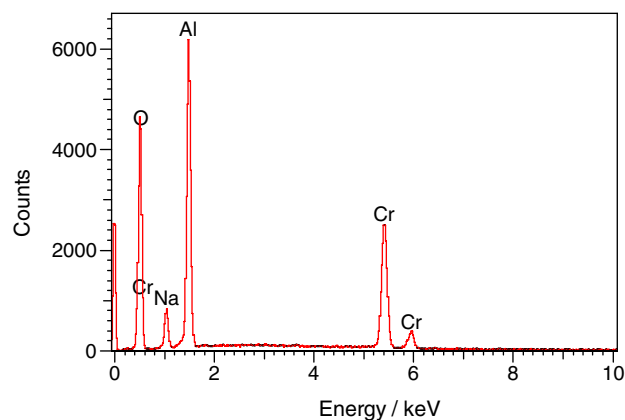


Figure S2. EDS measurement of CRAL.

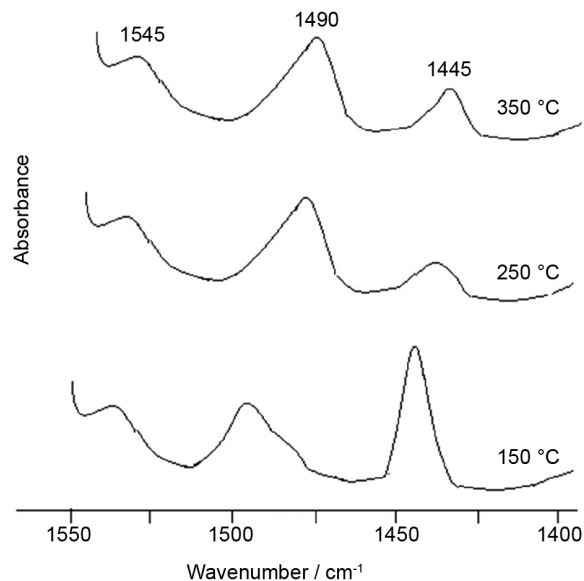


Figure S3. Infrared (KBr) spectra of pyridine adsorbed in the CRAL.

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