

Supporting Information

Tungsten oxide supported on copper ferrite: A novel magnetic acid heterogeneous catalyst for biodiesel production from low quality feedstock

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1. WO₃ loading study

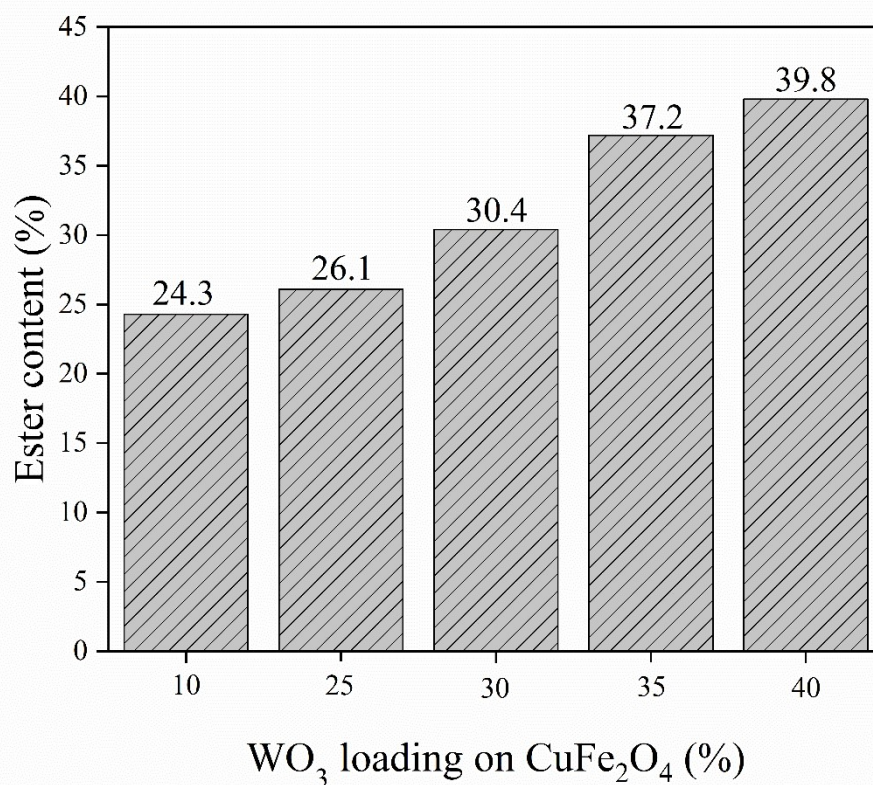


Fig. S1 Assessment of WO₃ loading on CuFe₂O₄ magnetic support in transesterification reaction (reaction temperature of 160 °C, reaction time of 3 h, MeOH:oil molar ratio of 35:1, catalyst loading of 6%).

2. Oxidative stability results of the biodiesel

Table S1 Oxidative stability results of the biodiesels obtained in the reaction cycles using $\text{WO}_3/\text{CuFe}_2\text{O}_4$ magnetic catalyst.

Reaction cycles	Ester content (%)	Oxidative stability (h)
1	94.3	4.80
2	92.9	4.61
3	90.0	4.17
4	86.3	3.89
5	80.6	3.33