

## **SUPPORTING INFORMATION**

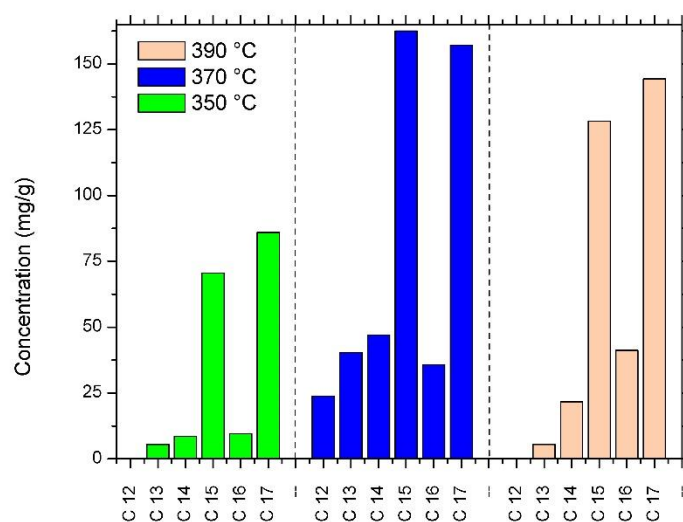
### **Conversion of residual palm oil into green diesel and bio-kerosene fuels under sub- and supercritical conditions employing Nickel-Raney as catalyst**

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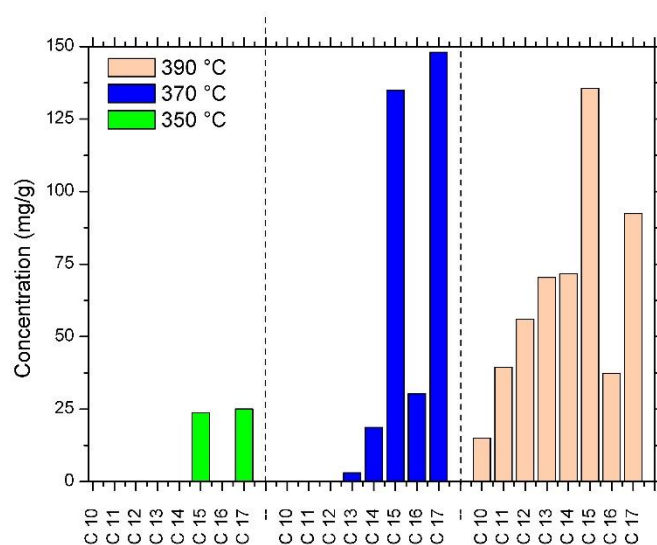
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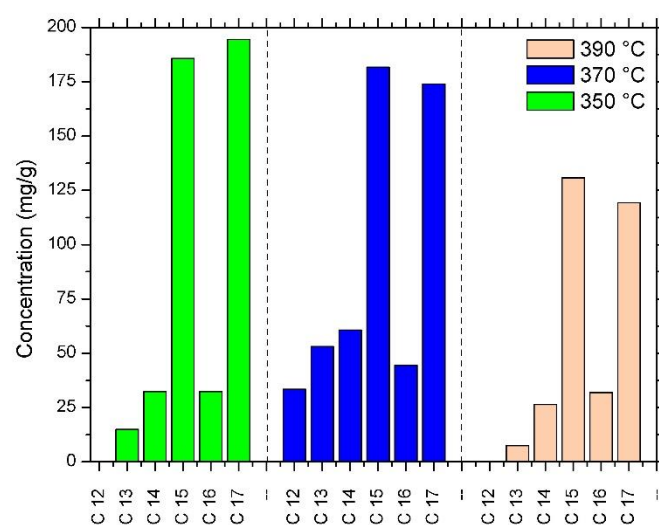
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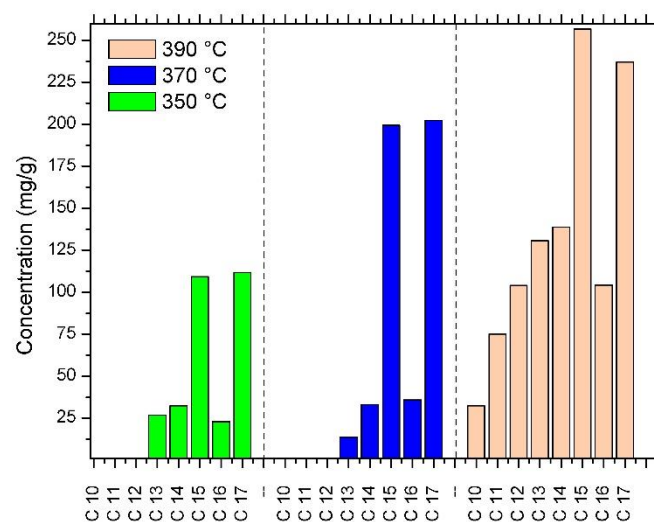
**Figure S1.** Hydrocarbon quantification by GC-MS for the reaction carried out at 10 wt.% of catalyst, 6 h, and biomass:water ratio of 1:2.



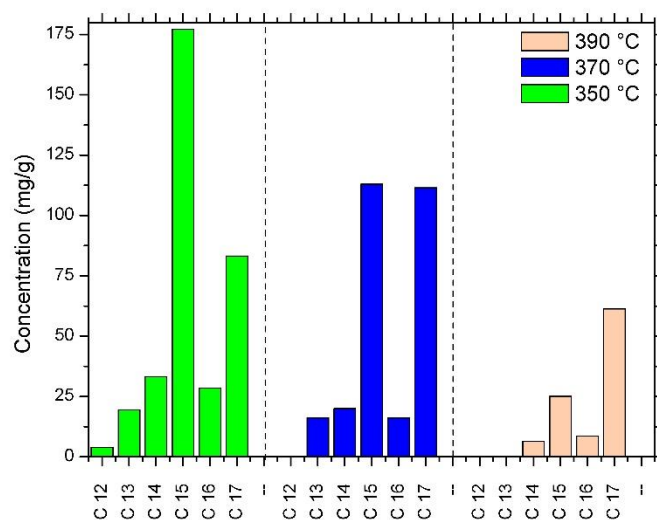
**Figure S2.** Hydrocarbon quantification by GC-MS for the reaction carried out at 7.5 wt.% of catalyst, 6 h, and biomass:water ratio of 1:2.



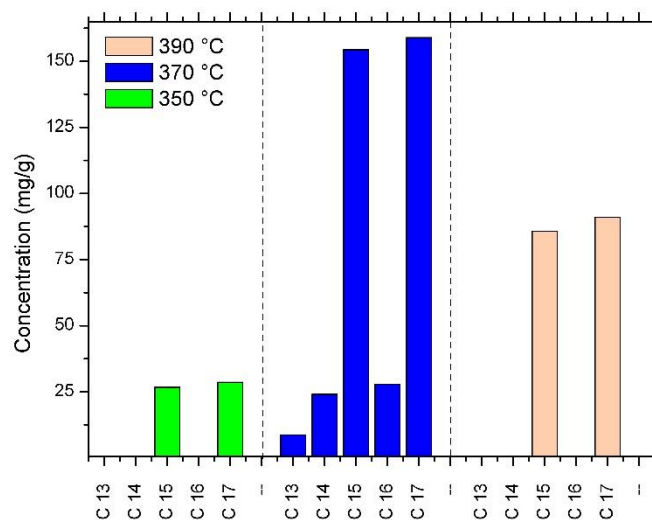
**Figure S3.** Hydrocarbon quantification by GC-MS for the reaction carried out at 5 wt.% of catalyst, 6 h, and biomass:water ratio of 1:2.



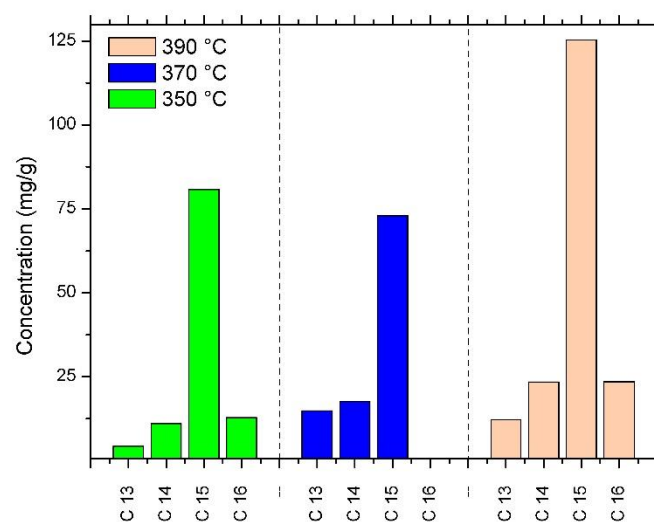
**Figure S4.** Hydrocarbon quantification by GC-MS for the reaction carried out at 10 wt.% of catalyst, 3.5 h, and biomass:water ratio of 1:2.



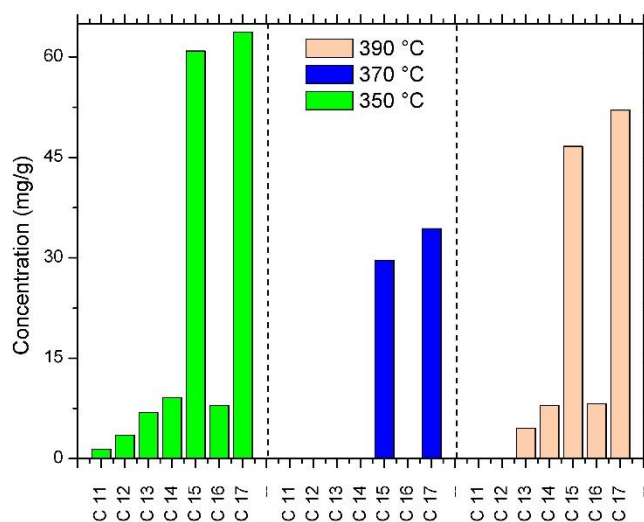
**Figure S5.** Hydrocarbon quantification by GC-MS for the reaction carried out at 7.5 wt.% of catalyst, 3.5 h, and biomass:water ratio of 1:2.



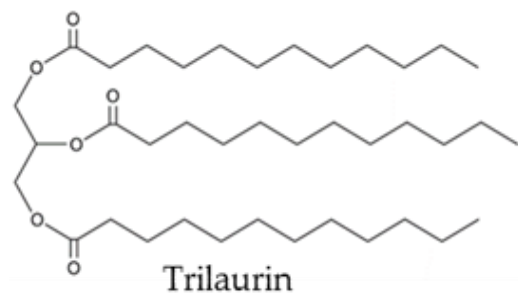
**Figure S6.** Hydrocarbon quantification by GC-MS for the reaction carried out at 5 wt.% of catalyst, 3.5 h, and biomass:water ratio of 1:2.



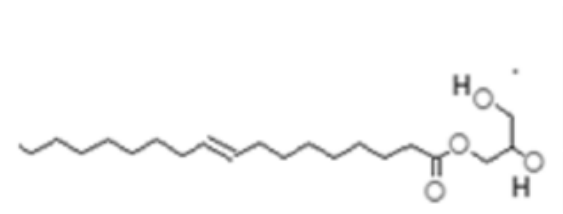
**Figure S7.** Hydrocarbon quantification by GC-MS for the reaction carried out at 10 wt.% of catalyst, 1 h, and biomass:water ratio of 1:2.



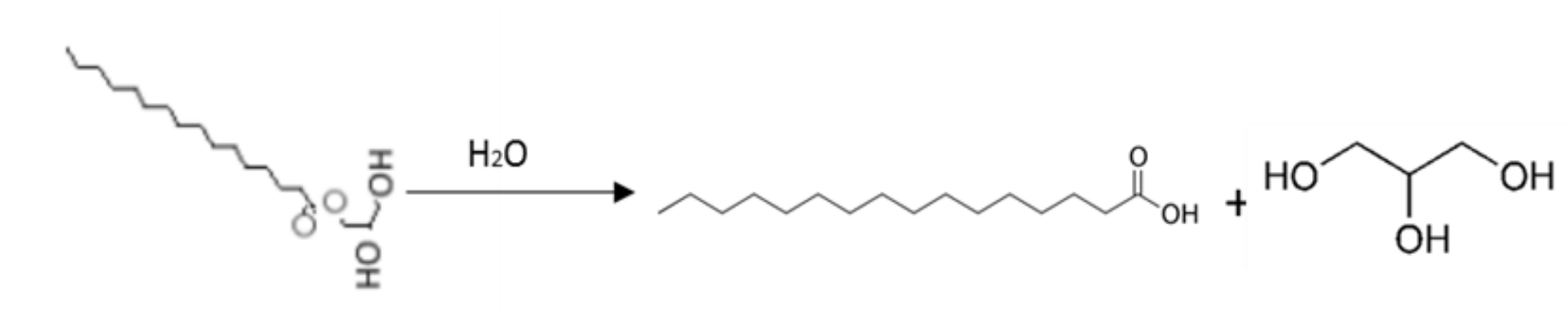
**Figure S8.** Hydrocarbon quantification by GC-MS for the reaction carried out at 5 wt.% of catalyst, 1 h, and biomass:water ratio of 1:2.



**Figure S9.** Hydrolysis reaction of trilaurin.



**Figure S10.** Hydrolysis reaction of monoolein.



**Figure S11.** Hydrolysis reaction of monopalmitin.