

عنوان مقاله:

Pyrolysis of treated/untreated bagasse: The effect of heating method and extra washing on bulk and chemical component yields

محل انتشار:

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نویسندگان:

M Koochi - Dept. of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran

K Shams - Dept. of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran

خلاصه مقاله:

In this study, catalytic/non-catalytic pyrolysis of pretreated/untreated bagasse was performed undervacuum in a fixed bed reactor. For finding the best heating method two ways were used. In the first way, the temperature of feedstock raised from ambient temperature to 400 °C with a heating rate of 12 °C min⁻¹ and in the second way, the temperature was set to 400 °C and then the reactor was put in the furnace. Thesecond method was favored for bio-oil production with higher yields and less oxygenated compounds. Also, pyrolysis experiment was performed after pretreating bagasse with concentrated HCl. Pretreatment caused to the reduction in bio-oil production. By the extra washing of .pretreated bagasse with water, the bio-oil yield slightly improved

کلمات کلیدی:

sugarcane bagasse, heating method, pretreatment, AgNO₃ test

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