

**Valorization of Napier grass via intermediate pyrolysis:  
Optimization using response surface methodology and  
pyrolysis products characterization**

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### **Highlights**

- ✓ Pyrolysis of Napier grass in a vertical fixed bed reactor.
- ✓ Optimization of bio-oil production from Napier grass using response surface methodology.
- ✓ Comprehensive characterization of bio-oil, bio-char and non-condensable gas.