

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

MOHAMMED, Isah Yakub, ABAKR, Yousif Abdalla, YUSUP, Suzana and KABIR, Feroz <<http://orcid.org/0000-0002-3121-9086>>

Available from Sheffield Hallam University Research Archive (SHURA) at:

<http://shura.shu.ac.uk/14123/>

This document is the author deposited version. You are advised to consult the publisher's version if you wish to cite from it.

Published version

MOHAMMED, Isah Yakub, ABAKR, Yousif Abdalla, YUSUP, Suzana and KABIR, Feroz (2017). Valorization of Napier grass via intermediate pyrolysis: Optimization using response surface methodology and pyrolysis products characterization. *Journal of Cleaner Production*, 142 (4), 1848-1866.

Copyright and re-use policy

See <http://shura.shu.ac.uk/information.html>

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.