Upgrading of Napier grass pyrolytic oil using microporous and hierarchical mesoporous zeolites: products distribution, composition and reaction pathways

MOHAMMED, Isah Yakub, ABAKR, Yousif Abdalla, YUSUP, Suzana, ALABA, Peter Adeniyi, MORRIS, Kenobi Isima, SANI, Yahaya Muhammad and KABIR, Feroz Kabir <http://orcid.org/0000-0002-3121-9086>

Available from Sheffield Hallam University Research Archive (SHURA) at:
http://shura.shu.ac.uk/15937/

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


Copyright and re-use policy

See http://shura.shu.ac.uk/information.html
**Highlights**

- Ex-situ catalytic upgrading of pyrolytic oil over microporous and mesoporous ZSM-5.
- Hierarchical mesoporous ZSM-5 produced higher yield of deoxygenated organic phase.
- Mesoporous zeolites favour production of alkyl monoaromatic hydrocarbons.