

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

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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.