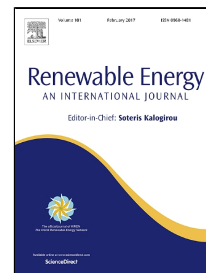


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Comprehensive characterization of lignocellulosic biomass through proximate, ultimate and compositional analysis for bioenergy production

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**Highlights**

- A comprehensive characterization of lignocellulosic biomass was performed.
- *Eragrostis airoides* (43.17 %) can be a good feedstock for biofuel production.
- *Typha angustifolia* has higher carbon percentage (52.895 %) hence higher heating value (19.6925 MJ/kg).
- Documentation of biomass specimen was done for future reference in the form of herbarium.
- Study shows that these indigenous biomass sample could be utilised for biofuel production

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