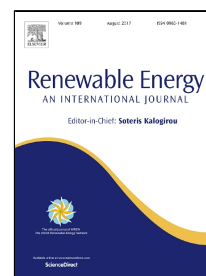


# Accepted Manuscript

Mechanical pretreatment at harvesting increases the bioenergy output from marginal land grasses

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**Highlights**

- The biogas production from fresh meadow grass was examined
- Mechanical pretreatment at harvesting improved the biodegradability of meadow grass
- Excoriator enhanced the methane yield by 20% compared to a classical Disc-mower
- The superiority of Excoriator was validated using three kinetic model equations
- Excoriator increased bioenergy output from 10% to 23% compared to other harvesters

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