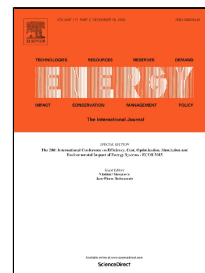


# Accepted Manuscript

Insight into progress in pre-treatment of lignocellulosic biomass

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**Highlights**

- Properties of feedstock LCM and pre-treatment operation play a vital role.
- Proper pretreatment method increase access to fermentable sugars thereby improving the efficiency of the whole process.
- In this review paper, intensive fundamental and applied research of each pretreatment process is reviewed.

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