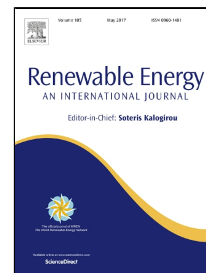


Accepted Manuscript

Cattle manure pyrolysis process: kinetic and thermodynamic analysis with isoconversional methods

Xinsong Yuan, Tao He, Hongliang Cao, Qiaoxia Yuan



PII: S0960-1481(17)30112-X
DOI: 10.1016/j.renene.2017.02.026
Reference: RENE 8533
To appear in: *Renewable Energy*
Received Date: 19 June 2016
Revised Date: 20 January 2017
Accepted Date: 10 February 2017

Please cite this article as: Xinsong Yuan, Tao He, Hongliang Cao, Qiaoxia Yuan, Cattle manure pyrolysis process: kinetic and thermodynamic analysis with isoconversional methods, *Renewable Energy* (2017), doi: 10.1016/j.renene.2017.02.026

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- TG experiments of cattle manure are addressed with six different heating rates.
- Four isoconversional methods are adopted for kinetic characteristics analysis.
- Pyrolysis process of cattle manure is a complicated multi-step reaction process.
- Each constituent of cattle manure has respective dominating pyrolysis ranges.
- Apparent activation energy increases with increasing pyrolysis temperature.

Download English Version:

<https://daneshyari.com/en/article/4926732>

Download Persian Version:

<https://daneshyari.com/article/4926732>

[Daneshyari.com](https://daneshyari.com)