

Accepted Manuscript

Title: Multi-fluid modeling biomass fast pyrolysis with particle shrinkage model for complex reaction kinetics

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PII: S0255-2701(18)30101-6
DOI: <https://doi.org/10.1016/j.cep.2018.03.030>
Reference: CEP 7240

To appear in: *Chemical Engineering and Processing*

Received date: 28-1-2018
Revised date: 30-3-2018
Accepted date: 30-3-2018

Please cite this article as: Zhong H, Zhang J, Zhu Y, Liang S, Multi-fluid modeling biomass fast pyrolysis with particle shrinkage model for complex reaction kinetics, *Chemical Engineering and Processing - Process Intensification* (2018), <https://doi.org/10.1016/j.cep.2018.03.030>

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Multi-fluid modeling biomass fast pyrolysis with particle shrinkage model for complex reaction kinetics

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