

# Accepted Manuscript

Experimental and kinetic studies on co-gasification of petroleum coke and biomass char blends

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PII: S0360-5442(17)30780-6  
DOI: 10.1016/j.energy.2017.05.023  
Reference: EGY 10830  
To appear in: *Energy*  
Received Date: 08 December 2016  
Revised Date: 02 May 2017  
Accepted Date: 04 May 2017

Please cite this article as: Guangwei Wang, Jianliang Zhang, Guohua Zhang, Xiaojun Ning, Xinyu Li, Zhengjian Liu, Jian Guo, Experimental and kinetic studies on co-gasification of petroleum coke and biomass char blends, *Energy* (2017), doi: 10.1016/j.energy.2017.05.023

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**Highlights**

- (1) Co-gasification properties of petroleum coke and biomass char were conducted.
- (2) Chemical components and physical structures of two samples were tested.
- (3) Reactive synergistic of the char was observed with biomass char adding.
- (4) Three nth-order representative gas-solid models were used to interpret co-combustion process.

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