### Accepted Manuscript

Title: Hydrodynamics of low temperature carbonization furnace for production of polyacrilonitrile (PAN)-based carbon fiber

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PII: S0263-8762(17)30568-3

DOI: https://doi.org/10.1016/j.cherd.2017.09.037

Reference: CHERD 2854

To appear in:

Received date: 13-8-2017 Revised date: 14-9-2017 Accepted date: 20-9-2017

Please cite this article as: Pham, Hung H., Lim, Young-il, Cho, Cheol-Ho, Bang, Yun-Hyuk, Hydrodynamics of low temperature carbonization furnace for production of polyacrilonitrile (PAN)-based carbon fiber. Chemical Engineering Research and Design https://doi.org/10.1016/j.cherd.2017.09.037

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## ACCEPTED MANUSCRIPT

# Hydrodynamics of low temperature carbonization furnace for production of polyacrilonitrile (PAN)-based carbon fiber

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