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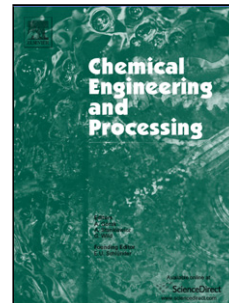
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Authors: Jia Yu, Joseph D. Smith

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Validation and application of a kinetic model for biomass gasification simulation and optimization in updraft gasifiers

Jia Yu and Joseph D. Smith*

*Department of Chemical and Biochemical Engineering, Missouri University of Science and Technology,
Rolla, MO 65401, United States*

**Corresponding authors: smithjose@mst.edu (J. D. Smith), 1101 North State Street, 110 Bertelsmeyer Hall,
Rolla, MO 65401, United States*

Tel.: +1 (573) 341-4294

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