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## GENERAL ENERGY



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## Scientific Challenges Towards an Efficient Hydrothermal **Biomass Gasification Process**

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## ♦ Introduction & Motivation



Carrying out the gasification process under high pressure (> 22.1 MPa) avoids vaporization of the water  $\Rightarrow$  lower heat demand than steam gasification



Waldner, M. H.; Vogel, F., Renewable Production of Methane from Woody Biomass by Catalytic Hydrothermal Gasification, Ind. Eng. Chem. Res. 44: 13 (2005), 4543-4551

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