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Implementing pressurized reactors and volatile fatty acids alleviated technologies for improved anaerobic digestion performance

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**Implementing pressurized reactors and
volatile fatty acids alleviated technologies
for improved anaerobic digestion
performance**

process evaluation and microbial community analysis

Jing Zhao

**university of
 groningen**

The work described in this thesis was conducted in the Products and Processes for Biotechnology in the Biobased Economy (PPBBE) research group, Engineering and Technology Institute Groningen (ENTEG), University of Groningen, The Netherlands.

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 groningen

Implementing pressurized reactors and volatile fatty acids alleviated technologies for improved anaerobic digestion performance

Process evaluation and microbial community analysis

PhD thesis

to obtain the degree of PhD at the
University of Groningen
on the authority of the
Rector Magnificus Prof. C. Wijmenga
and in accordance with
the decision by the College of Deans.

This thesis will be defended in public on

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DEDICATED TO

My family, who supported me silently but firmly so long

My friends, who helped me and inspired me

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