

## Gang Luo - DTU Orbit (06/08/2016)

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### Publications:

#### **Comparative analysis of taxonomic, functional, and metabolic patterns of microbiomes from 14 full-scale biogas reactors by metagenomic sequencing and radioisotopic analysis**

Luo, G., Fotidis, I. & Angelidaki, I. 2016 In : *Biotechnology for Biofuels*. 9, 12 p., 51

Publication: Research - peer-review › Journal article – Annual report year: 2016

#### **Analysis of bacterial communities and bacterial pathogens in a biogas plant by the combination of ethidium monoazide, PCR and Ion Torrent sequencing**

Luo, G. & Angelidaki, I. 2014 In : *Water Research*. 60, p. 156-163 8 p.

Publication: Research - peer-review › Journal article – Annual report year: 2014

#### **Anaerobic digestion for simultaneous sewage sludge treatment and CO biomethanation: process performance and microbial ecology**

Luo, G., Wang, W. & Angelidaki, I. 2013 In : *Environmental Science & Technology (Washington)*. 47, 18, p. 10685–10693

Publication: Research - peer-review › Journal article – Annual report year: 2013

#### **Co-digestion of manure and whey for in situ biogas upgrading by the addition of H<sub>2</sub>: process performance and microbial insights**

Luo, G. & Angelidaki, I. 2013 In : *Applied Microbiology and Biotechnology*. 97, 3, p. 1373-1381

Publication: Research - peer-review › Journal article – Annual report year: 2012

#### **Enhanced thermophilic fermentative hydrogen production from cassava stillage by chemical pretreatments**

Wang, W., Luo, G., Xie, L. & Zhou, Q. 2013 In : *Water Science and Technology*. 68, 1, p. 59-67 10 p.

Publication: Research - peer-review › Journal article – Annual report year: 2013

#### **Hollow fiber membrane based H<sub>2</sub> diffusion for efficient in situ biogas upgrading in an anaerobic reactor**

Luo, G. & Angelidaki, I. 2013 In : *Applied Microbiology and Biotechnology*. 97, 8, p. 3739-3744

Publication: Research - peer-review › Journal article – Annual report year: 2013

#### **Influence of activated carbon amended ASBR on anaerobic fermentative hydrogen production**

Xie, L., Wang, L., Zhou, Q. & Luo, G. 2013 In : *Tongji Daxue Xuebao (Ziran Kexue Ban)*. 41, 5, p. 728-734

Publication: Research - peer-review › Journal article – Annual report year: 2013

#### **Methods and apparatus for hydrogen based biogas upgrading**

Luo, G., Angelidaki, I. & Lyhne, P. 2013

Publication: Research › Patent – Annual report year: 2013

#### **Performance and microbial community analysis of the anaerobic reactor with coke oven gas biomethanation and in situ biogas upgrading**

Wang, W., Xie, L., Luo, G., Zhou, Q. & Angelidaki, I. 2013 In : *Bioresource Technology*. 146, p. 234–239

Publication: Research - peer-review › Journal article – Annual report year: 2013

#### **Integrated biogas upgrading and hydrogen utilization in an anaerobic reactor containing enriched hydrogenotrophic methanogenic culture**

Luo, G. & Angelidaki, I. 2012 In : *Biotechnology and Bioengineering (Print)*. 109, 11, p. 2729-2736 8 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

**Optimization of biohydrogen and methane recovery within a cassava ethanol wastewater/waste integrated management system**

Wang, W., Xie, L., Luo, G. & Lu, Q. 2012 In : Bioresource Technology. 120, p. 165-172

Publication: Research - peer-review › Journal article – Annual report year: 2012

**Biohydrogen and methane production by co-digestion of cassava stillage and excess sludge under thermophilic condition**

Wang, W., Xie, L., Chen, J., Luo, G. & Zhou, Q. 2011 In : Bioresource Technology. 102, 4, p. 3833-3839

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept**

Luo, G., Talebnia, F., Karakashev, D. B., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 2, p. 1433-1439

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Enhancement of bioenergy production from organic wastes by two-stage anaerobic hydrogen and methane production process**

Luo, G., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 18, p. 8700-8706

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Long-term effect of inoculum pretreatment on fermentative hydrogen production by repeated batch cultivations: homoacetogenesis and methanogenesis as competitors to hydrogen production**

Luo, G., Karakashev, D. B., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Biotechnology and Bioengineering (Print). 108, 8, p. 1816-1827

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Metangas kan blive en genvej til brintsamfundet**

Angelidaki, I., Luo, G. & Lyhne, P. 2011 In : FIB - Forskning i Bioenergi, Brint & Brændselsceller. 37, p. 3-4

Publication: Research - peer-review › Journal article – Annual report year: 2012

**Simultaneous hydrogen utilization and in situ biogas upgrading in an anaerobic reactor**

Luo, G., Johansson, S., Boe, K., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Biotechnology and Bioengineering (Print). 109, 4, p. 1088-1094

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Anaerobic treatment of cassava stillage for hydrogen and methane production in continuously stirred tank reactor (CSTR) under high organic loading rate (OLR)**

Luo, G., Xie, L., Zou, Z., Wang, W., Zhou, Q. & Shim, H. 2010 In : International Journal of Hydrogen Energy. 35, 21, p. 11733-11737

Publication: Research - peer-review › Journal article – Annual report year: 2010

**Cassava Stillage Treatment by Thermophilic Anaerobic Continuously Stirred Tank Reactor (CSTR)**

Luo, G., Xie, L., Zou, Z. & Zhou, Q. 2010 In : A I P Conference Proceedings Series. 1251, 1, p. 49

Publication: Research › Journal article – Annual report year: 2010

**Effect of initial pH on thermophilic fermentative hydrogen production from cassava ethanol wastewater**

Luo, G., Xie, L., Zou, Z. & Zhou, Q. 2010 In : Tongji Daxue Xuebao/Journal of Tongji University. 38, 7, p. 1036-1040,1068

Publication: Research › Journal article – Annual report year: 2010

**Evaluation of pretreatment methods on mixed inoculum for both batch and continuous thermophilic biohydrogen production from cassava stillage**

Luo, G., Xie, L., Zou, Z., Wang, W. & Zhou, Q. 2010 In : Bioresource Technology. 101, 3, p. 959-964

Publication: Research - peer-review › Journal article – Annual report year: 2010

**Exploring optimal conditions for thermophilic fermentative hydrogen production from cassava stillage**

Luo, G., Xie, L., Zou, Z., Wang, W. & Zhou, Q. 2010 In : International Journal of Hydrogen Energy. 35, 12, p. 6161-6169

Publication: Research - peer-review › Journal article – Annual report year: 2010

**Fermentative hydrogen production from cassava stillage by mixed anaerobic microflora: Effects of temperature and pH**  
Luo, G., Xie, L., Zou, Z., Zhou, Q. & Wang, J-Y. 2010 In : Applied Energy. 87, 12, p. 3710-3717  
Publication: Research - peer-review › Journal article – Annual report year: 2010

**Enhanced treatment efficiency of an anaerobic sequencing batch reactor (ASBR) for cassava stillage with high solids content**

Luo, G., Xie, L. & Zhou, Q. 2009 In : Journal of Bioscience and Bioengineering. 107, 6, p. 641-645  
Publication: Research - peer-review › Journal article – Annual report year: 2009

#### **Projects:**

**Integration of biomass and wind power for biogas enhancement and upgrading via hydrogen assisted anaerobic digestion**

Kougias, P., Luo, G. & Angelidaki, I.

01/07/2013 → ...

Project

**An innovative process for simultaneous utilization of hydrogen and in-situ biogas upgrading**

Luo, G. & Angelidaki, I.

01/07/2012 → 30/06/2015

Project