

BRISK Related Publications



As at 13th May 2015

A. Ieviņa, V. Kampars. *The influence of catalyst on the obtained gas phase by catalytic pyrolysis*, Abstracts of the Riga Technical University 54th International Scientific Conference, p. 25, RTU International Scientific Conference, 14-16. October, 2013, Riga, Latvia.

A. Montebelli, C.G. Visconti, G. Groppi, E. Tronconi, S. Kohler, H.J. Venvik, R. Myrstad. *Washcoating and chemical testing of a commercial Cu/ZnO/Al₂O₃ catalyst for the methanol synthesis over copper open-cell foams*, 2014, Appl. Catal. A Gen. (481) 96-103.

C. Branca, C. Di Blasi, A. Galgano, and M. Broström. *Effects of the torrefaction conditions on the fixed-bed pyrolysis of Norway Spruce*. Energy & Fuels 2014 28 (9), 5882-5891 <http://pubs.acs.org/doi/abs/10.1021/ef501395b>

C. Branca, C. Di Blasi, A. Galgano, M. Brostrom. *Effects of the torrefaction conditions on the fixed-bed pyrolysis of Norway spruce*, Energy & Fuels 28, 5882-5891, 2014.

C. Branca, C. Di Blasi. *Thermogravimetric analysis of the combustion of dry distiller's grains with solubles (DDGS) and pyrolysis char under kinetic control*. Fuel Processing Technology 129, 69-74, 2015.

C. Christodoulou, C. Tsekos, G. Tsalidis, M. Fantini, K.D. Panopoulos, W. De Jong, E. Kakaras (2014). *Attempts on cardoon gasification in two different circulating fluidized beds*, Case Studies in Thermal Engineering, 4, pp.42-52. DOI: 10.1016/j.csite.2014.06.004

C. Parsland, J. Brandin. Conference contribution: *Ni-substituted Ba-hexaaluminates as catalysts in steam reforming of tars*, Oral presentation, 2nd international conference on Catalysis for renewable. Lund, Sweden 2013-07-23. Paper: *Ni-substituted Ba-Hexaaluminate as tar reforming catalyst in producer gas from gasified biomass*. (Planned to be submitted to Fuel Processing Technology during December 2014).

E. Houshfar, L. Wang, N. Vähä-Savo, A. Brink, T. Løvås. *Characterisation of CO/NO/SO₂ emission and ash-forming elements from the combustion and pyrolysis process*. Clean Technology Environmental Policy, DOI 10.1007/s10098-014-0762-3, 2014.

E. Houshfar, L. Wang, N. Vähä-Savo, A. Brink, T. Løvås. *Experimental study of a single particle reactor at combustion and pyrolysis conditions*. Chemical Engineering Transactions, 35, 613-618, 2013.

G. Xue, M. Kwapinska, A. Horvat, W. Kwapinski, L. P. Rabou, S. Dooley, K. M. Czajka, J. J. Leahy. *Gasification of torrefied Miscanthus x giganteus in an air-blown bubbling fluidized bed gasifier*, Bioresource Technology, 3, 397-403 (2014).

- G. Xue, M. Kwapinska, A. Horvat, Z. Li, S. Dooley, W. Kwapinski, J. J. Leahy, *Gasification of Miscanthus x giganteus in an air-blown bubbling fluidized bed: A preliminary study of performance and agglomeration*, Energy & Fuels 28 (2), 1121-1131 (2014).
- G. Xue, M. Kwapinska, W. Kwapinski, K. M. Czajka, J. Kennedy, J. J. Leahy, *Impact of torrefaction on properties of Miscanthus x giganteus relevant to gasification*, Fuel, 121(0), 189-197 (2014).
- G. Xue. *Fluidized bed gasification of raw and torrefied Miscanthus x giganteus dissertation*, PhD dissertation, University of Limerick (2014)
- H. Romar, A.H. Lillebø, P. Tynjälä, T. Hu, A. Holmen, E.A. Blekkan, U. Lassi. *Supported cobalt catalysts for Fischer-Tropsch synthesis using biomass-derived syngas*. NSC2014 - 16th Nordic Symposium on Catalysis. June 15-17 2014, Oslo, Norway (Poster). Submitted as manuscript.
- H. Romar, A.H. Lillebø, P. Tynjälä, T. Hu, A. Holmen, E.A. Blekkan, U. Lassi. *H₂-TPR, XPS and TEM Study of the Reduction of Ru and Re promoted Co/γ-Al₂O₃, Co/TiO₂ and Co/SiC catalysts*. (Manuscript ready for submission).
- H. Romar PhD Thesis (under evaluation): *Biomass gasification and characterization of Co catalysts for FTS conversion of synthesis gas*. University Of Oulu, Finland.
- J. Li dissertation, <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-140705>
- J. Li, E. Biagini, W. Yang, L. Tognotti, W. Blasiak. *Flame characteristics of pulverized torrefied-biomass combusted with high temperature air*. Combustion and Flame, Vol. 160, pp. 2585–2594. 2013.
- J. Li, G. Bonvicini, E. Biagini, W. Yang, L. Tognotti. *Characterization of high-temperature rapid char oxidation of raw and torrefied biomass fuels*. Submitted to Fuel. 2014.
- J. Li, G. Bonvicini, L. Tognotti, W. Yang, W. Blasiak. *Char oxidation of torrefied biomass at high temperatures and high heating rates*. The 6th International Conference on Applied Energy, Taipei, Taiwan. May 30-June 2, 2014.
- J. Li, G. Bonvicini, W. Yang, L. Tognotti. *High temperature-rapid devolatilization of biomasses with varying torrefaction degrees*. Fuel, 122, pp. 261-269. 2014.
- J. Milovanovic, N. Rajic, R.E. Stensrød, E.M. Myhrvold, R. Tschentscher, M. Stöcker. *Lignin pyrolysis in the presence of oxide particles embedded onto natural clinoptilolite and ZSM-5*, 6th International FEZA conference, 8-11 September 2014, Leipzig Germany, 2014, pp. 700.
- J. Milovanovic, R.S. Stensrød, E.M. Myhrvold, R. Tschentscher, M. Stöcker, S. Lazarevic, N. Rajic. *Modification of natural clinoptilolite and ZSM-5 with different oxides and studying of the obtained products in lignin pyrolysis*. J. Serb. Chem. Soc. (2014) doi: 10.2298/JSC310714109M

J.F. Peters, S.W. Banks, A. Susmozas, J. Dufour, (2014). *Experimental verification of a predictive pyrolysis model in Aspen Plus*. 22nd European Biomass Conference and Exhibition. Hamburg, Germany. (Conference proceeding).

J.F. Peters. Pyrolysis for biofuels or biochar? A thermodynamic, environmental and economic assessment". PhD dissertation. University Rey Juan Carlos, Móstoles, Madrid, Spain (2015).

R. Rauch, 2013. *Kerosin from wood over FT synthesis*, 7. Kolloquium Sustainable BioEconomy, 9th December 2013, KIT Germany.

R. Rauch, 2014. *2nd generation biofuels from biomass by steam gasification*, 2nd Nuremberg Workshop on Methanation and Second Generation Fuels, 12th to 13th June 2014, Nürnberg, Germany.

R. Rauch, 2014. *Liquid biofuels from biomass via steam gasification*, 8th SGC International Seminar on Gasification, 15th to 16th October 2014, Malmö, Sweden

R. Rauch, M. Jovicic, C. Aichernig, E. Ililopoulou, E. Heracleous, A.A. Lappas, 2014. *Hydroprocessing and catalytic cracking of Fischer-Tropsch biowaxes to biokerosene*, Processing Technologies for the Forest and Biobased Products Industries PTF BPI, 2014 at the Salzburg University of Applied Sciences Kuchl/Austria, 24th to 25th September 2014, Kuchl, Austria.

S. Shiplu, B. Fernando, S. Jose-Luis, N.H. Kofoed. *Characterization and pilot-scale fluidized bed gasification of herbaceous biomass: a case study on alfalfa pellets*, Energy Conversion and Management (Elsevier Journal)

S. Shiplu, N.H. Kofoed, K. Turid, T. Lars-Andre. *Characterization of biomass by employing thermo-gravimetric analysis and the lab-scale gasifiers* (Conference presentation). 4th international symposium on gasification and its applications (iSGA4), 2-5 September, 2014; Vienna, Austria.