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Pyrolysis oil upgrading to transportation fuels by catalytic hydrotreatment

Wildschut, Jelle

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List of Publications

Oral presentations:

Wildschut, J.; Mahfud, F.H.; Heeres, H.J. Novel Hydrotreating Catalysts for Upgrading Fast-Pyrolysis Oil. Proceedings of the 8th Netherlands' Catalysis and Chemistry Conference 2007, Noordwijkerhout (The Netherlands), 5-7 March 2007.

Wildschut, J.; Huisman, B.; Heeres, H.J. Upgrading Fast-Pyrolysis Oil: a Model Compound Study. Proceedings of the 9th Netherlands' Catalysis and Chemistry Conference 2008, Noordwijkerhout (The Netherlands), 3-5 March 2008.

Wildschut, J.; Heeres, H.J. Experimental Studies on the Upgrading of Fast Pyrolysis Oil to Liquid Transportation Fuels. Proceedings of the 235th ACS meeting , New Orleans (United States of America), 6-10 April 2008

Wildschut, J.; Heeres, H.J.; Upgrading of Fast Pyrolysis Oil to Liquid Transportation Fuels. Proceedings of Netherlands Process Technology Symposium 2008, Veldhoven (The Netherlands), 28-29 Oktober.

Wildschut, J.; Arendz, J.; Rasrendra, C.B.; Venderbosch, R.H.; Heeres, H.J. Upgrading Fast Pyrolysis Oil: Hydrogenation of Sugar Fraction Molecules from Pyrolysis Oil using Ru/C Catalysts. Proceedings of the 10th Netherlands' Catalysis and Chemistry Conference 2009, Noordwijkerhout (The Netherlands), 2-4 March 2008.

Wildschut, J.; Heeres, H.J. Hydrodeoxygenation of Pyrolysis Oil: a Model Compound Study. Proceedings of the 18th International conference on Chemical Reactors, Bugibba (Malta), 29 September- 3 October 2008.

Poster presentations:

Wildschut, J.; Mahfud, F.H.; Melian Cabrera, I.V.; Heeres, H.J. Synthesis and Characterization of Hydro-deoxygenated Pyrolysis-oils. Proceedings of the 7th Netherlands' Catalysis and Chemistry Conference 2006, Noordwijkerhout (The Netherlands), 6-8 March 2006.

Wildschut, J.; Heeres, H.J. Novel Hydrotreating Catalysts for Upgrading Fast-Pyrolysis Oil. Proceedings of the 7th Netherland Process Technology Symposium, Noordwijkerhout (The Netherlands), 29-30 October 2007.

Wildschut, J.; Arentz, J.; Rasrendra, C.B.; Venderbosch, R.H.; Heeres H.J. Catalytic Hydrotreatment of Fast Pyrolysis oil: Model studies on Reaction Pathways for the Carbohydrate Fraction. Environmental Progress and Sustainable Energy, TCBiomass Conference, Chicago (United States of America), 16-18 September, 2009.

Written publications:

Marsman, J.H.; Wildschut, J.; Mahfud, F.H.; Heeres, H.J. Identification of Components in Fast Pyrolysis Oil and Upgraded Products by Comprehensive Two-Dimensional Gas Chromatography and Flame Ionisation Detection. *J. Chrom. A.* **2007**, 1150, 21.

Marsman, J.H.; Wildschut, J.; Evers, P.; Koning, S.; Heeres, H.J. Analysis and Characterisation of Flash Pyrolysis oil by Two-Dimensional Gas Chromatography and Time of Flight Mass Spectrometry. *Chromatogr. A.* **2008**, 1188, 17.

Wildschut, J.; Heeres, H.J. Experimental Studies on the Upgrading of Fast Pyrolysis Oil to Liquid Transportation Fuels. *Prepr. Pap. - Am. Chem. Soc., Div. Fuel Chem.* **2008**, 53(1), 349.

Wildschut, J.; Arentz, J.; Rasrendra, C.B.; Venderbosch, R.H.; Heeres, H.J. Catalytic Hydrotreatment of Fast Pyrolysis oil: Model studies on Reaction Pathways for the Carbohydrate Fraction. *Environ. Prog.*, **2009**, 28(3),

Wildschut, J.; Mahfud, F.H.; Venderbosch, R.H.; Heeres, H. J. Hydrotreatment of Fast Pyrolysis oil using Heterogeneous Noble Metal Catalysts. *Ind. Eng. Chem. Res.* **2009**, Accepted for Publication.

Leijenhurst, E.J.; Wever, D.A.Z.; Wildschut, J.; Venderbosch, R.H.; van Dam, J.E.G.; Manurung, R.; Broekhuis, A.A.; Heeres, H.J. Valorisation of *Jatropha curcas* L. plant parts: Nut Shell Conversion to Fast Pyrolysis Oil. *Food Bioprod. Process.* **2009**.

Venderbosch, R.H.; Ardiyanti, A.; Wildschut, J.; Oasmaa, A.; Heeres, H. J. Insights in the Hydroprocessing of Biomass Derived Pyrolysis oil. *www.btgworld.com.* **2009**.

Wildschut, J.; Muhammed, I.; Venderbosch, R.H.; Heeres, H.J. Insights in the Hydrotreatment of Fast Pyrolysis Oil using a Ruthenium on Carbon Catalyst. *Biofuel. Bioprod. Bior.* **2009**, submitted.

Venderbosch, R.H.; Ardiyanti, A.; Wildschut, J.; Oasmaa, A.; Heeres, H.J. Stabilisation of Biomass Derived Pyrolysis Oils. *J. Chem. Technol. Biot.* **2009**, Submitted.