(MÖ 190616)

PhD examinations at the Subject of Energy Engineering, Luleå University of Technology

1. 1993 Dahl, J. Short term water heat storage: studies of velocity and temperature fields and their importance for sizing of the storage

2. 1993 Hermansson, R Short term water heat storage: an experimental and numerical investigation of phenomena that affect the degree of thermal stratification

3. 1995 Westerlund, L. Open absorption system for drying of moist air

4. 1998 Veber, P. Studies of the flow pattern in short term hot water storages

5. 1999 Fredriksson, C. Exploratory experimental and theoretical studies of cyclone gasification of wood powder

6. 2000 Gabra, M. Study of possibilities and some problems of using cane residues as fuel in a gas turbine for power generation in the sugar industry

7. 2001 Salman, H. Evaluation of a cyclone gasifier design to be used for biomass fuelled gas turbines

8. 2004 Larsson, M. Process integration in the steel industry: possibilities to analyse energy use and environmental impacts for an integrated steel mill

9. 2004 Lundgren, J. Design and experimental studies of a biomass fired furnace for small- and medium scale heating applications

10. 2005 Wiinikka, H. High temperature aerosol formation and emission minimisation during combustion of wood pellets

11. 2007 Johansson, L. Efficient energy use in different applications

12. 2007 Wang, C. Possibilities of CO2 emission reduction: process integration analysis and carbon trading schemes

13. 2009 Leduc, S. Development of an optimization model for the location of biofuel production plants

14. 2009 Eriksson, G. Residues from biochemical production of transport biofuels in Northern Europe: combustion properties and applications

15. 2010 Lundmark, M. The zone concept: design of low-voltage installations considering the spread of high frequency harmonics

16. 2011 Larsson, A. On high-frequency distortion in low-voltage power systems

17. 2011 Carlsson, P. Large scale experiments and modeling of black liquor gasification

18. 2012 Grimm, A. Experimental studies of ash transformation processes in combustion of phosphorus-rich biomass fuels

19. 2013 Rönnberg, S. Emission and interaction from domestic installations in the low voltage electricity network, up to 150 kHz

20. 2013 Risberg, M. Entrained flow gasification of biomass: On atomisation, transport processes and gasification reactions

21. 2014 Shen, G. Extension of PC-SAFT to model inhomogeneous and transport properties

22. 2014 Andersson, J.-O. Energy and Resource Efficiency in Convective Drying Systems in the Process Industry

23. 2015 Biswas, A. Effect of chemical and physical properties on combustion of biomass particle

24. 2015 Weiland, F. Pressurized entrained flow gasification of pulverized biomass: Experimental characterization of process performance

25. 2015 Göktepe, B. Entrained flow gasification of biomass: soot formation and flame stability

26. 2016 Andersson, J. Systems Analysis of Chemicals Production via Integrated Entrained Flow Biomass Gasification: Quantification and improvement of techno-economic performance

27. 2016 Zhang, Y. Thermodynamic Analysis and Screening ILs/DESs-based Absorbents for CO_2 Separation

28. 2016 Mesfun, S. Process integration to increase woody biomass utilization for energy purposes

29. 2016 Xie, Y. CO_2 separation with ionic liquids - from properties to process simulation

30. 2016 Näzelius, I.-L. Slag formation in fixed bed combustion of phosphorus-poor biomass

31. 2017 Vesterlund, M. District heating system analysis and challenges within the urban transformation of Kiruna

32. 2017 He, H. Layer Formation on Bed Particles during Fluidized Bed Combustion and Gasification of Woody Biomass

33. 2017 Ma, C. Aspects of Ash Transformations in Pressurised Entrained-Flow Gasification of Woody Biomass: Pilot-scale studies

34. 2018 Risberg, D. Analysis of The Thermal Indoor Climate with Computational Fluid Dynamics for Buildings in Sub-artic Regions

35. 2018 Carvalho, L. Opportunities to Broaden Biomass Feedstocks in Thermochemical Conversion Technologies

36. 2018 Bach Oller, A. Alkali-enhanced gasification of biomass – Laboratory-scale experimental studies

37. 2019 Ögren, Y. Improving the efficiency of entrained flow gasifiers by real-time in-situ diagnostics and burner design