Dipl.-Ing. Sandra Staudt, geb. Zlabinger

Born 1992 in Amstetten (AUT)

Education and employment:

2010	A-levels at Gymnasium Amstetten
2011-2015	Bachelor's program *Mechanical Engineering* at University of Technology Graz
2012/2013	Summer trainee at ENERTEC - Naftz & Partner GmbH & Co KG, Graz
2012-2014	Student assistant at the Institute of Mechanics, University of Technology Graz
2013-2015	Project assistant at ENERTEC - Naftz & Partner GmbH & Co KG, Graz
2014	Summer trainee at Mondi Neusiedler GmbH, Hausmening
2015-2017	Master's program *Chemical and Mechanical Engineering* with specialization in *Energy and Process Engineering* at University of Technology Graz
2015-2016	Student employee at HyCentA Research GmbH, Graz
2017-2020	Junior Researcher at BIOENERGY 2020+ GmbH
since 2018	Doctoral program in technical sciences at the Institute of Automation and Control, University of Technology Graz Dissertation:"Model-based control of absorption heat pumping systems"
since 2020	Researcher at BEST - Bioenergy and Sustainable Technologies GmbH, Graz

Research topics: Modelling, simulation and control of thermal, chemical and biotechnological processes

Selected publications:

Sandra Staudt, Viktor Unterberger, Markus Gölles, Michael Wernhart, René Rieberer, Martin Horn, CONTROL-ORIENTED MODELING OF A LIBR/H2O ABSORPTION HEAT PUMPING SYSTEM AND EXPERIMENTAL VALIDATION, Journal of Process Control (submitted 2022)

Sandra Zlabinger, Viktor Unterberger, Markus Gölles, Martin Horn, Michael Wernhart, René Rieberer, DEVELOPMENT AND EXPERIMENTAL VALIDATION OF A LINEAR STATE-SPACE MODEL FOR ABSORPTION HEAT PUMPING SYSTEMS FOR MODEL-BASED CONTROL STRATEGIES, International Sorption Heat Pump Conference 2021, Germany

Christopher Zemann, Markus Deutsch, Sandra Zlabinger, Georg Hofmeister, Markus Gölles, Martin Horn; OPTIMAL OPERATION OF RESIDENTIAL HEATING SYSTEMS WITH LOGWOOD BOILER, BUFFER STORAGE AND SOLAR THERMAL COLLECTOR, Biomass & Bioenergy (2020), Volume 140

Michael Wernhart, René Rieberer, Sandra Zlabinger, Viktor Unterberger, Markus Gölles; EXPERIMENTALLY VERIFIED DYNAMIC SIMULATION MODEL OF A NH3/H2O-ABSORPTION REFRIGERATION SYSTEM, *14th IIR Gustav-Lorentzen Conference on Natural Fluids, GL 2020 - Proceedings* 2020, Japan