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Research Experience

since 09/2017

BEST – Bioenergy and Sustainable Technologies GmbH
(previous Bioenergy 2020+ GmbH)
Area Automation and Control

08/2013 - 05/2017

Vienna University of Technology
Institute of Chemical, Environmental and
Biological Engineering

05/2012 - 06/2013

Vienna University of Technology
Institute of Mechanics and Mechatronics
Division of Control and Process Automation

Education

2013 - 2017

PhD in the field of chemical and process engineering
at Vienna University of technology

2011 - 2012

Master's degree course in process engineering
at Vienna University of technology

2007 - 2011

Bachelors's degree course in process engineering
at Vienna University of technology

2001 - 2006

College of Chemistry – Rosensteingasse

Journal publications

Markus Deutsch, Felix Birkelbach, Christian Knoll, Michael Harasek, Andreas Werner, Franz Winter

An extension of the NPK method to include the pressure dependency of solid state reactions

Thermochimica Acta, 654:168-178, 2017 DOI: 10.1016/j.tca.2017.05.019

Markus Deutsch, Florian Horvath, Christian Knoll, Daniel Lager, Christian Gierl-Mayer, Peter Weinberger, Franz Winter

High-Temperature Energy Storage: Kinetic Investigations of the CuO/Cu₂O Reaction Cycle

Energy and Fuels, 1 (3), 2324-2334, 2017 DOI: 10.1021/acs.energyfuels.6b02343

Markus Deutsch, Danny Müller, Christian Aumeyr, Christian Jordan, Christian Gierl-Mayer, Peter Weinberger, Franz Winter, Andreas Werner

Systematic search algorithm for potential thermochemical energy storage systems

Applied Energy, 183:113-120, 2016 DOI: 10.1016/j.apenergy.2016.08.142

Felix Birkelbach, Markus Deutsch, Stylianos Flegkas, Franz Winter, Andreas Werner

A higher-order generalization of the NPK-method

Thermochimica Acta, 661:27-33, 2018 DOI: 10.1016/j.tca.2018.01.005