

AGG Poster @ Nestlé Research Lausanne

Title	Author	Institute
Process based estimations of dust formation tendency by means of distribution- and material-specific Parameters for dry and moist materials	Dr. Kai Vaupel Prof. Dr. Eberhard Schmidt	Bergische Universität Wuppertal, Institut für Partikeltechnologie
“Superhydrophobic” forces: air meniscus formation and shape	Mimmi Eriksson Mikael Järn, Mikko Tuominen, Viveca Wallqvist, Per M. Claesson, Hannu Teisala, Doris Vollmer, Dr. Michael Kappl, Prof. Hans-Jürgen Butt, Patrick Gane, Joachim Schoelkopf, Agne Swerin	RISE Research Institutes of Sweden KTH Royal Institute of Technology Sweden Max Planck Institute for Polymer Research, Omya International AG, Oftringen, Switzerland Aalto University, School of Chemical Engineering, Finland
Experimental investigation of continuous fluidized bed spray agglomeration with internal classification	Gerd Strenzke Ievgen Golovin Prof. Andreas Bück Prof. Achim Kienle Prof. Evangelos Tsotsas	Otto-von-Guericke University Magdeburg, Thermal Process Engineering Institute of Particle Technology, Friedrich-Alexander-Universität Erlangen-Nürnberg Otto-von-Guericke University and Max-Planck Institute for Dynamics of Complex Technical Systems
Preparation of silicon-carbon composites for lithium-ion batteries by high-shear mixing and fluidized bed granulation	Jannes Müller Christine Nowak Sabrina Zellmer Prof. Arno Kwade	TU Braunschweig, Institut für Partikeltechnik
Simulation of the rounding of pharmaceutical pellets in a spheronizer using DEM-PBM coupling	Dominik Weis Prof. Sergiy Antonyuk Maria Evers Prof. Markus Thommes	Technische Universität Kaiserslautern, Lehrstuhl für Mechanische Verfahrenstechnik, & XTechnische Universität Dortmund, Lehrstuhl für Mechanische Verfahrenstechnik,
Effect of key bulk parameters on flowability of fibrous materials	Steffen Beitz Dr. Harald Zetzener Prof. Arno Kwade	TU Braunschweig, Institut für Partikeltechnik
Influence of granule properties and process parameters on die filling behavior of spray dried granules	Bianca Glöß Dr. Manfred Fries	Fraunhofer Institut für keramische Technologien und Systeme

Dynamics of contact areas between solid particles and silo wall	Thomas Falke Dr. Matthias Kröger Karl Krüger Dr. Thomas Mütze	TU Bergakademie Freiberg, IMKF + MVT/AT
Investigation on flow patterns, local stresses, and resulting droplet deformation in orifices during high-pressure homogenization	Felix Johannes Preiss Katharina Kelemen Ariane Bisten Prof. Heike Karbstein	Karlsruhe Institute of Technology, Institute of Process Engineering in Life Sciences, Chair of Food Process Engineering
Modelling the Powder Compaction in Dry Granulation Process using DEM	Anna Schütt Prof. Maksym Dosta Prof. Stefan Heinrich	Hamburg University of Technology, Institute of Solids Process Engineering and Particle Technology
Application of transformation matrices to the dynamic flowsheet simulation of agglomeration process	Vasyl Skorych Nilima Das Prof. Maksym Dosta Prof. Jitendra Kumar Prof. Stefan Heinrich	Hamburg University of Technology, Institute of Solids Process Engineering and Particle Technology & Indian Institute of Technology Kharagpur, Department of Mathematics, Kharagpur/IND
Development of a hybrid holistic simulation tool for reduction of water and energy demand in wine production processes using Java and Reference Petri Nets	Martin Schütz Isabel Becker Mohamed Hussein Mira Schwinn Dominik Durner Prof. Antonio Delgado	Friedrich-Alexander-Universität Erlangen-Nürnberg, Institute of Fluid Mechanics & Dienstleistungszentrum Ländlicher Raum DLR Neustadt
Drying behaviour of coating on single particles using an acoustic levitation device	Fabian Krull Prof. Sergiy Antonyuk	TU Kaiserslautern, Lehrstuhl für Mechanische Verfahrenstechnik
Development of Dust Release Function – Describing the Particle Emissions of Bulk Materials	Nadja Schwindt Daniel Schulz Prof. Harald Kruggel Prof. Eberhard Schmidt	Bergische Universität Wuppertal, Institut für Partikeltechnologie & TU Berlin, FG Mechanische Verfahrenstechnik und Aufbereitung
Modeling of undesired agglomeration in spray fluidized bed coating	Christian Rieck Prof. Andreas Bück Prof. Evangelos Tsotsas	Otto-von-Guericke-Universität Magdeburg, Lehrstuhl für Thermische Verfahrenstechnik & Alexander-Universität Erlangen-Nürnberg, Lehrstuhl für Feststoff- und Grenzflächenverfahrenstechnik
Study of particle motion in a flighted rotating drum by means of Magnetic Particle Tracking (MPT) and DEM simulation	Lanyue Zhang Prof. Lothar Mörl Dr. Jochen Mellmann Prof. Evangelos Tsotsas	TU Potsdam, Leibniz-Institut für Agrartechnik und Bioökonomie e.V. & Otto-von-Guericke University Magdeburg
Development of a vacuum and climatic chamber for single microparticle impact tests	Fabian Krull Sylvan Matzenbacher Prof. Sergiy Antonyuk	TU Kaiserslautern, Lehrstuhl für Mechanische Verfahrenstechnik

<p>Mechanistic investigation of acting micro-processes during powder compression using well-defined model materials</p>	<p>Isabell Wünsch Alexander Diener Dr. Jan Henrik Finke Prof. Edgar John Dr. Michael Juhnke Prof. Arno Kwade</p>	<p>Institut für Partikeltechnik, TU Braunschweig Zentrum für Pharmaverfahrenstechnik (PVZ) Novartis Pharma AG, Basel/CH</p>
<p>Powder equilibration: water activity and moisture content determination by the dynamic flow method</p>	<p>Dr. Roman Kirsch Manuel Elze Jürgen Dillenz</p>	<p>ProUmid GmbH & Co. KG, Ulm</p>
<p>Agglomeration of agricultural by-products for multipurpose use</p>	<p>Katja Schaldach Dr. Hans-Werner Schröder Dr. Volker Herdegen</p>	<p>TU Bergakademie Freiberg, Institut für Thermische Verfahrenstechnik, Umwelt- und Naturstoffverfahrenstechnik</p>
<p>Investigations on Continuous Powder Feeding</p>	<p>Maren Zimmermann Astrid Seifert Jens Wesholowski Prof. Markus Thommes</p>	<p>TU Dortmund, Lehrstuhl Feststoffverfahrenstechnik</p>
<p>Spray Granulation in Continuously Operated Horizontal Fluidised Beds – Studying the dynamic Behaviour and influence of Process Conditions</p>	<p>Eugen Diez Christoph Neugebauer Stefan Palis Achim Kienle Lisa Mielke Prof. Evangelos Tsotsas Andreas Bück Stefan Heinrich</p>	<p>Hamburg University of Technology Institute of Solids Process Engineering and Particle Technology</p>