

Timeline for Online Workshops in Summer 2024 of the SPP 2364

- 15.04.2024 **Autonomous control of a process chain for CO₂ carbonation by use of mine waste**
Mikhail Kakanov
Volker Bächle
Chinmay Hegde
- 22.04.2024 **Model-based Process Control for Transferred Arc Synthesis of Nanoparticles**
Danijel Cuturic
Jonah Weidemann
- 29.04.2024 **Synthesis of highly functional nanoparticles via a sol-gel process using X-ray scattering methods: from process development to process control**
Guohui Yang
Marcel Kévin Jiokeng Dongmo
- 06.05.2024 **Model-based control of the dynamics during fine grinding in wet-operated stirred media mills**
Michel Lahmann
Christoph Thon
- 27.05.2024 **Autonomous structure formation processes in spray fluidized bed agglomeration**
Jialin Men
Eric Otto
Aisel Ajalova
- 03.06.2024 **Adaptive Optimal Control of Continuous Aqueous Two-Phase Flotation (ATPF)**
Katrin Baumgärtner,
Florian Messerer
Kim Lohfink

10.06.2024 **Optimization of Gas-Solid Fluidized Beds Operation using Machine Learning**

Iffat Jamil

ARCO-CRYSTAL: Adaptive robust predictive control of continuous slug flow cooling crystallization

Collin Johnson

Maximilian Kattner

24.06.2024 **Autonomous and self-adapting, high-resolution 3D additive manufacturing by high energy impacts of fine particles**

Yannik Sinnwell

Anton Maksakov

01.07.2024 **Adaptive data-driven predictive control using behavioral approach for autonomous powder compaction**

Ali Azarbahram

René Brands

08.07.2024 **Formulation of dispersed systems via (melt) emulsification: Process design, in situ diagnostics and regulation**

Thorben Südhoff

Stefan Buchstaller

Nicolas Hesse,

Leah Ebner

15.07.2024 **Model-based quality control in continuous manufacturing of pharmaceutical granules (QC4CM)**

Stefan Tölle

Stefan Klinken

22.07.2024 **Model-based control of spray synthesis of structured granules with specified properties, using transfer functions derived by multivariate stochastic models and machine learning**

Mahsa Mohammadi

Lukas Fuchs,

Niklas Eiermann

29.07.2024 **Model-based process control for dynamic and efficient operation of liquid/liquid mixer-settler systems**

Chrysoula Bliatsiou

Daniel Topalovic