

Poster Heat & Mass Transfer

- P09 L. Elmlinger/ Karlsruher Institut für Technologie (KIT):
Experimental investigation of mixed convection in a vertical tube flow of liquid metal and of water
- P10 K. Keller/ Karlsruher Institut für Technologie (KIT):
Influence of the Strut Cross-Sectional Geometry of Periodic Open Cellular Structures (POCS) on Convective Heat
- P11 S. Gietl/ Karlsruher Institut für Technologie (KIT):
Phase-Field Modelling for Two-Phase Flow Prediction with Physics-Informed Neural Networks
- P12 L. Janning/ Karlsruher Institut für Technologie (KIT):
Coupled Mass Transport in Multi-Polymer Materials During Drying
- P13 P. Barbig/ Karlsruher Institut für Technologie (KIT):
Humidity Management, Mass Transfer and Sorption Kinetics in Porous Battery Electrodes
- P14 L. Brandler/ Technische Universität Darmstadt:
Toward Sustainable Working Fluids for Space Applications: Pool Boiling with Water under Reduced Gravity
- P15 J. Dörr/ Karlsruher Institut für Technologie (KIT):
Unique Experimental Setup for Advanced Investigations on Mass Transport in Battery Recycling and Production
- P16 T. Gambaryan-Roisman/ Technische Universität Darmstadt:
Numerical simulations of Marangoni convection in an evaporating water-ethanol mixture film on a structured substrate
- P17 L. Hanimann/ Lucerne University of Applied Sciences Engineering and Architecture:
Advanced Modeling of Bio-Reactor Processes
- P18 F. Wermelinger/ Lucerne University of Applied Science and Arts:
Robust Fluid-Structure-Contact Interaction for the Prediction of Cavitation in Fluid Devices
- P19 N. Staubli/ Lucerne University of Applied Science and Arts:
Horizontal Borehole Thermal Energy Storage: Design Parameters and Thermal Performance
- P20 Q. Li/ University of Stuttgart:
System-Level Optimization of a Facade-Integrated Adsorption-Based Solar Cooling System for High-Rise Buildings
- P21 L. Janning/ Karlsruher Institut für Technologie (KIT):
Mass Transport During Production of Catalyst Coated Membranes with Multiple Solvents for Hydrogen Applications
- P22 P. Barbig/ Karlsruher Institut für Technologie (KIT):
Guiding Mass Transport Mechanisms in Post-Drying Processes of Lithium-Ion Battery Manufacturing
- P23 E. Liu/ Otto von Guericke University:
Mechanistic insights into single particle calcination via adaptive pore network modeling
- P24 P. Chittem/ Friedrich-Alexander-Universität Erlangen-Nürnberg:
Characterization of Particle Diffusion Under Confined Conditions by Using Dynamic Light Scattering (DLS)
- P25 X. Zhang/ RPTU Kaiserslautern:
Multiscale Modeling of Molecular Thermodynamics and Continuum-Scale Simulations for describing Fluid Flow
- P26 X. Zhang/ RPTU Kaiserslautern:
Entropy scaling for modeling the thermal conductivity and diffusion coefficients
- P27 S. Schäfer/ TU Hamburg, Inst. für Thermodyn.:
Experimentelle Untersuchung der ein- und zweiphasigen Wärmeübergänge und Druckverluste in parallelen Minikanälen
- P28 M. Deeb/ Univ. Kassel:
Übersicht zu Berechnungsmethoden zum Wärmeübergang beim Sieden
- P29 H. Margraf/ Univ. Kassel:
Wärmeübergang bei der Verdampfung von Methanol und n-Pentan in Kapillarstrukturen
- P30 F. Meral/ Univ. Kassel:
Analyse des Wärmeübergangs von Kohlenstoffdioxid (R744) beim Sieden
- P31 C. Berger/ Univ. Bayreuth:
Experimental investigation of heat transfer during boiling of R1233zd(E) on a tube bundle
- P32 B. Fumey/Lucerne University of Applied Sciences and Arts:
Sorption Storage Heat Pump: Operating Results of a Demonstrator System
- P33 S. Benkert/ Fraunhofer Institut fuer solare Energiesysteme:
Investigation of Condensing/Evaporating Heat Transfer in a High-Temperature Heat Pump generating Steam

Poster Fluid Separations

- P01 D. Appelhaus/ TU Braunschweig:
YoungFluidSeps - Early Career Fluid Dynamics and Separation Engineers
- P02 Ö. Boz/ Paderborn University:
Integration of Direct Electric Heating with 3D-Printed Packings in Separation Columns
- P03 S. Wurmannstätter/ Technical University of Munich, TUM School of Engineering and Design:
Numerical and Experimental Investigation of Liquid Distribution and Wetting Behavior of Innovative Structured
- P04 F. Engel/ Technical University of Munich:
Hydraulic Investigations on Push Valves in a DN1200 Tray Column
- P05 C. Maier/ Technical University of Munich, TUM School of Engineering and Design:
The Influence of Column Tilting on the Hydraulic Performance of Tray Columns
- P06 L. Arzner/ Ulm University:
Overcoming fouling in randomly packed columns for ammonia distillation from wastewater
- P07 P. Franke/ Paderborn University:
Identification of multiple steady states in reactive absorption columns equipped with structured packings
- P08 S. Brinkmann/TH Bingen:
A Novel 3D-Printed Absorption Column for CO₂ Capture and Syngas Purification Studies