

**Particle & Bulk Powder Characterization**

Poster Board Number	Title	First Name	Last Name	Paper Number
1	Particle Measurement in High Temperature Gas Based on Mie Scattering	Lifeng	Lu	95a
2	An Experimental Investigation of Single Droplet Drying Above Boiling Point	Wael	Ebrahim	95b
3	Characterising Powder Flow in Dynamic Processes	Marvellous J.	Khala	95c
4	Testing the Flowability of Fibrous and Woody Biomass for Various Particle Size Distributions and Moisture Levels	Spandana	Vajrala	95d
5	Impact of Non-Spherical Projectiles on Granular Media	Spandana	Vajrala	95e
6	Computational and Experimental Shear Cell Study with Rigid Cylindrical Particles	Liliana	Bello	95f
7	Influence of Alumina Support Crystallinity on ALD-Synthesized Cobalt Catalysts for Fischer-Tropsch Synthesis	Jacob M.	Clary	95g
8	Defluidization Behaviour of Industrial Reactive Powders at High Temperature	Domenico	Macri	95i
9	Manufacturing and Characterization of Spherical Blend PBT-PC Particles for Additive Manufacturing	Maximilian A.	Dechet	95j

**Particle Interactions**

Poster Board Number	Title	First Name	Last Name	Paper Number
10	Creating Tuneable Agglomerates via 3D Printing	Ruihuan	Ge	95k
11	Effect of Particle Size Distribution and Wettability on Penetration Behavior, Granule Formation and Granule Properties in Single Drop Granulation	Tianxiang	Gao	95l

**Particle Design**

Poster Board Number	Title	First Name	Last Name	Paper Number
12	Atomically Deposited Sintering Aids: Assessing the Effects of Alumina Particle ALD on the Sintering and Performance of SOFC Electrolytes and Dental Ceramics	Rebecca	O'Toole	95m

**Handling & Processing of Granular Systems**

Poster Board Number	Title	First Name	Last Name	Paper Number
14	Effect of Particle Size Distribution and Operating Parameters on Conduction and Convection Heat Transfer Mechanisms in Rotary Drums	Manogna	Adepu	95n

**Particle & Nanoparticle Functionalization**

Poster Board Number	Title	First Name	Last Name	Paper Number
15	Selective Hydrogenation of Citral over Supported Pt Catalysts on Various Substrates	Xiaofeng	Wang	95o

**Particle Classification**

Poster Board Number	Title	First Name	Last Name	Paper Number
16	Numerical Simulation of Particle Classification in a Classifier Based on Coanda Effect	Dongjoo	Kim	95p

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**Fluidization & Multiphase Flow**

Poster Board Number	Title	First Name	Last Name	Paper Number
17	Numerical Simulation of the Secondary Air Distribution Layer in the Gas Solid Fluidized Bed Based on Flunt Software	Bo	Lv	95q
18	CFD-DEM Simulation of the Fluidization of Non-Spherical Particles in Fluidized Bed	Yongzhi	Zhao	95r
18	CFD-DEM Simulation of the Fluidization of Non-Spherical Particles in Fluidized Bed	Huaqing	Ma	95r
18	CFD and DEM Simulation of the Cold Spray Process for Surface Coating with Fine Particles	Paul	Breuninger	95s
19	Two-Fluid Validation of Constitutive Models for the Simulation of Cylindrical Particles	Kevin E.	Buettner	95t
20	The Comparison of Coarse Grained CFD-DEM for Simulating the Dense Bubbling Fluidized Bed" Requires Immediate Action	Yong	Zhang	95u
21	Stability Analysis of Uniform Gas Solids Flow	Chenxi	Zhang	95v
22	Numerical Simulation of Particle Sedimentation Related to Nuclear Safety By CFD-DEM Algorithm	Byoungcheol	Hwang	95w
23	Application of Extended Discrete Element Method to the Melting Process of a Packed of Particles	Mehdi	Bnaisadi	95x
24	Real-Time Interpretation of Chaotic Characteristics and Instability of Dense Gas Solid Fluidization	Cheng	Sheng	95y

**Particle-Based Separations: Fundamentals & Applications**

Poster Board Number	Title	First Name	Last Name	Paper Number
25	Numerical Simulation of a Counter-Current Moving-Bed Reducer Reactor for Gaseous Chemical-Looping Combustion Using Methane As Feedstock	Yu-Yen	Chen	95aa

**Applications of Particle Technology for Pharmaceuticals**

Poster Board Number	Title	First Name	Last Name	Paper Number
26	Glucan Particles As Potential Carriers of Natural Flavonoids for Treatment of Idiopathic Inflammation Diseases	Petra	Salamúnová	95ab
27	Use of Advanced Imaging Techniques in Tablet Disintegration Study	Jakub	Dvorak	95ac
28	Correlation Study between Liquid Penetration and Mechanical Properties of Pharmaceutical Tablets	Jan	Tomas	95ad
29	In Situ Drug Amorphisation By Microwave Irradiation Stabilized By Mesoporous Silica	Jakub	Mužik	95ae
30	Manufacture of Personalised Medicines By API Printing on Porous Tablets	Sarah	Akhlsová	95af
31	Understanding Phase Transition of Acetaminophen in the Bulk and Surface of Acetaminophen	Hanane	Abouhakim	95ag
32	Treatment of Cystinosis through Vitamin E Modified Silicone Hydrogel	Phillip	Dixon	95ah
33	Systems Integration for Dry Granulation Based Continuous Pharmaceutical Tableting	Sudarshan	Ganesh	95am

**Applications of Solids Processing Unit Operations**

Poster Board Number	Title	First Name	Last Name	Paper Number
34	Modeling Granular Material Mixing and Segregation Using a Multi-Scale Model	Yu	Liu	95ai

**Special Topics in Particle Technology**

Poster Board Number	Title	First Name	Last Name	Paper Number
35	Modelling Granular Media with Dynamical Density Functional Theory	Timothy D.	Hurst	95ak
36	A Study on Partially Wetted Particle Collisions with a Wet Wall	Evan	Milacic	95al