

Particle Technology Seminar FS14

Fridays 14-17h; ML F40

- Feb. 21 "Cytotoxicity evaluation of ceramic oxide nanoparticles, accounting for their synthesis method and properties"
Laetitia von Rochow, MS thesis, PTL
- Feb. 28 "Synthesis and characterization of conductive polymer nanocomposite films"
Christoph Blattmann, MS thesis, PTL
- Mar. 7 "Superparamagnetic nanoparticles incorporated in alginate microbeads"
Florian Haufe, presentations of BS thesis, PTL
"Gas-phase synthesis of inorganic/polymer nanocomposites"
Fabian Starsich, presentation of MS thesis, PTL
- Mar. 14 "Flame made sensor array for breath analysis"
Vitaly Koren, presentation of SA thesis, PTL
"Development of a CO₂ free FSP to produce carbonate free nanoparticle"
Nicolay Pineau, presentation of BS thesis, PTL
- Mar. 24 **Mon** "Air Entrainment Simulation of Tube-Enclosed FSP by Computational Fluid Dynamics"
ML E13 @1.15pm *Oliver Brenner, presentation of BS thesis, PTL*
"Flame Synthesis and Characterization of BiVO₄-based Heterojunctions for Photocatalysis"
Kevin Wetter, presentation of MS thesis, PTL
- Mar. 28 "Annealing Strategy Optimization of Carbon Black Coated LiFePO₄ Nanoparticles"
Sebastian Abegg, presentation of BS thesis, PTL
"Fast gas measurements with FTIR during NO_x storage and reduction reactions"
Agim Asani, presentation of BS thesis, PTL
- Apr. 4 "Flame Synthesis of Nanoparticles -The Effect of High Temperature Residence Time"
Gion Etterlin, planning presentation of SA thesis, PTL
- Apr. 10 **Thu** "Analysis of Exhaled Breath for Medical Diagnosis and Therapeutic Monitoring"
CLA J1 @2.30pm *Prof. Anton Amann, Breath Research Institute of the University of Innsbruck*
- Apr. 11 "Catalytic Hydrogen Production with ZnO Nanoparticles"
Donovan Chie, planning presentation of MS thesis, PTL
- May 2 "Increasing cytotoxicity with size of pyrogenic nanosilica"
Anastasia Spyrogianni, PTL
"The evolving fractal-like structure during particle growth by coagulation & sintering"
"Coagulation of Fractal-like Aerosols from the Free Molecular to the Continuum Regime"
Eirini Goudeli, PTL
- May 9 "Magnetically triggered drug release from alginate microbeads"
Florian Haufe, BS thesis, PTL
"Cytotoxicity evaluation of ceramic oxide nanoparticles, accounting for their synthesis method and properties"
Laetitia von Rochow, MS thesis, PTL

- May 23 "Flame sensor array for breath analysis"
Vitaly Koren, SA thesis, PTL
"Barium titanate synthesis by Flame spray pyrolysis"
Nicolay Pineau, BS
- May 30 "Visible-light active black TiO₂-Ag/TiO_x particles"
Kakeru Fujiwara, PTL
- June 6 "Measurement of N₂O in NSR catalyst"
ML F40 @ 1.15pm *Asani Agim, BS*
"Coagulation of Fractal-like Aerosols from the Free Molecular to the Continuum Regime"
Eirini Goudeli, PTL
- June 13 "Annealing Strategy Optimization of Carbon Black Coated LiFePO₄ Nanoparticles"
ML J37.1 @1.15pm *Sebastian Abegg, BS*
- June 20 "Air Entrainment Simulation of Tube-Enclosed FSP by Computational Fluid Dynamics"
ML E13 @1.15pm *Oliver Brenner, BS*
- June 25 „Molecular mechanisms at the nanoscale: from nanoparticle's growth to their interactions with Biological Systems“
Prof. Angela Violi, Universtiy of Michigan, USA
- June 27 "Gas-Phase Synthesis of Inorganic/Polymer Nanocomposites"
CLA E4 @1.15pm *Fabian Starsich, final presentation of MS thesis*
- July 11 "Visible-light active black TiO₂-Ag/TiO_x particles"
ML E13 @1.15pm *Kakeru Fujiwara, PTL*
- July 18 "Cytotoxicity evaluation of ceramic oxide nanoparticles, accounting for their synthesis method and properties"
ML E13 @1.15pm *Laetitia von Rochow, presentation of MS thesis*
"Solar-light Photocatalysis: Surface-oxidized crystalline TiO_x on Ag/TiO₂"
"Visible-light active black TiO₂-Ag/TiO_x particles"
Kakeru Fujiwara, PTL
- July 25 "Manufacturing of Cu catalyst material for methanol synthesis via flame spray pyrolysis"
ML E13 @1.15pm *Maximilian Domaschke, BASF Ludwigshafen, Germany*
- August 4 **Mon** "Coagulation of Fractal-like Aerosols in the Transition Regime"
ML E13 @1.15pm "The effect of evolving fractal-like structure on product primary and agglomerate size & morphology during coagulation and sintering"
Eirini Goudeli, PTL
- August 8 "The cytotoxicity of fumed silica increases with increasing particle size"
ML E13 @1.15pm *Anastasia Spyrogianni, PTL*
- August 15 "Flame made Supported Au-Pd Catalysts Past Results and Plans"
ML E13 @1.15pm *Boontida Pongthawornsakun, Chulalongkorn University, Thailand*
- August 22 "Direct Simulation Monte Carlo and Fokker-Planck Models for Rarefied Gas Flow"
ML E13 @1.15pm *Prof. Patrick Jenny, Institute of Fluid Dynamics, ETHZ*
- Sept. 5 "Catalytic Hydrogen Production with ZnO Nanoparticles"
CLA J1 @1.15pm *Donovan Chie, presentation of MS thesis*

Sept. 12

ML J34.1 @1.15pm *Rajesh Koirala, PTL*