

Particle Technology Seminar HS15

Fridays 14-17h; ML F40

- Sept. 18 "An equation of state for the description of rheological behavior of entangled polymers based on nonequilibrium thermodynamics"
Ioanna C. Tsimouri, Dept. of Chemical Engineering, University of Patras, Greece
"Oxidative Dehydrogenation of Ethane on Cobalt Catalysts Supported on Various Single and Mixed Oxides"
Rajesh Koirala, PTL
- Sept. 25 "High throughput synthesis of active pharmaceutical ingredient submicron-crystals by supersonic spray drying"
Vitaly Koren, presentation of MS thesis, ETHZ
"The influence of Cr in the CeO₂ solar thermochemical splitting of H₂O and CO₂ for syngas production"
Sotiria Mostrou, MS thesis, ETHZ
- Sept. 30 **Wed** "New Approaches for Sepsis Diagnosis and Therapy: The Era of Microvesicles and Nanoparticles"
ML E13 @3pm *Dr. Inge Herrmann, EMPA*
- Oct. 2 "Approaching the agglomeration of nanoparticles with Brownian Dynamics"
Dr. Katerina Karadima, University of Patras
- Oct. 9 "NIR-to-NIR downconversion photoluminescence of flame-made nanophosphors"
Pascal Gschwend, planning presentation of MS thesis, ETHZ
"A unified description of the phase behaviour and rheology of spherical nanoparticles dispersed within a polymeric matrix"
Dr. Pavlos S. Stephanou, Polymer Physics, Department of Materials, ETH Zurich
- Oct. 23 "Noble metal subnano-Cluster loaded Fe₂O₃ nanoparticles for solar photocatalysis"
ML H43 @ 1pm *Marc Suter, planning presentation of SA thesis, ETHZ*
- Oct. 30 "Understanding the mechanism of NH₃ sensitivity & selectivity of Si-doped MoO₃"
Jonathan Theodore, planning presentation of SA thesis, ETHZ
- Nov. 6 "The Crystal Structure of Coalescing Au and Its Alloy Nanoparticles by Ab Initio Molecular Dynamics"
"Effect of sampler design on nanoparticle sizing at high temperatures"
Eirini Goudeli, PTL
- Nov. 27 "Development of an optimized flame-made Pt-Sn/Al₂O_{3m} for Propane Dehydrogenation"
Davide Stucchi, Semester Thesis, PTL
"Nanoparticle sedimentation in physiological media and their in vitro cytotoxicity in upright and inverted cell cultures"
Anastasia Spyrogianni, PTL
- Dec 11 "Gas pre-separation by zeolite films for improved sensor selectivity in breath analysis"
@3pm *Sebastian Abegg, planning presentation of SA thesis, ETHZ*

- Dec 18 "NIR-to-NIR downconversion photoluminescence of flame-made nanophosphors"
Pascal Gschwend, mid-term presentation of MS thesis, ETHZ
- Jan. 8 "Metal Clusters-based Photocatalysts for Solar Fuel Generation"
CLA J1 @2.15pm *Gion Diego Etterlin, presentation of MS thesis, City University of Hong Kong/ETH*
- Jan 18 **Mo** "Portable sensors based on integrated photonics"
ETZ E8@9.30am *Prof. Andrea Armani, University of Southern California*
ML E13@1.15pm "Understanding NH₃ sensing mechanism of pure & Si-doped MoO₃ by in-situ Surface characterization"
Jonathan Theodore, final presentation of SA thesis, ETHZ
- Jan 22 "Black titania for photocatalytic NO_x decomposition in visible light"
ML E13 @1.15pm *Marc Suter, presentation of Semester thesis, PTL*
- Jan 29 "Pd subnano-clusters on TiO₂ for solar photocatalytic NO removal"
ML F38 @1.15pm *Kakeru Fujiwara, PTL*
- Feb 5 "Development of an optimized flame-made Pt-Sn-Ce/Al₂O₃ for Propane Dehydrogenation"
ML E13 @1.15pm *Davide Stucchi, final presentation of SA thesis, ETHZ*
- Feb 12 "Enhanced selectivity of sensors by decoupled zeolite/Al₂O₃ membranes: from non-specific Pd:SnO₂ to formaldehyde selective"
ML E13 @1.15pm *Sebastian Abegg, final presentation of SA thesis, ETHZ*
 "Multifunctional nanoparticles for targeted theranostics"
Fabian Starsich, PTL
- Feb 19 "Al-doped ZnO Nanoparticles Based Sensors for the Detection of DMMP as a Simulant of a Chemical Agent"
ML E13 @1.15pm *Ran Yoo, Nano Device Laboratory, Yonsei University, Korea*