



Special Research Program (SFB) F45 Functional Oxide Surfaces and Interfaces (FOXSI)

6th Annual PhD Workshop

01. – 04. February 2017, Gasthof Stenitzer, 8967 Haus im Ennstal

Wednesday, 01. February 2017

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| 7:30 – ca. 11:15 | Bus transfer from Vienna Karlsplatz to Haus im Ennstal, Styria |
| 11:15 | Check-in |
| 11:15 – 12:30 | Get-together and LUNCH |
| 13:30 – 16:30 | Discussions |
| 18:00 – 19:30 | DINNER |
| 20:00 – 20:30 | Edvinas Navickas
Oxygen surface exchange kinetics and diffusion in ionically conductive thin films (09) |
| 20:30 – 21:00 | Verena Pramhaas
CO interaction with Pt – bridging the materials gap (02) |
| 21:00 – 23:00 | Poster Session |

Thursday, 02. February 2017

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Martin Datler**
Oscillating phenomena in confined mesoscopic reaction systems (04)
- 09:00 – 09:30 **Johannes Zeininger**
Local pacemakers in the CO-oxidation reaction: micrometer vs. nanometer scale (04)
- 09:30 – 10:00 **BREAK**
- 10:00 – 10:30 **Peter Lackner**
Water adsorption at the zirconia surface on Pt₃Zr (05)
- 10:30 – 11:00 **Stephan Pollitt**
Co_x(SR)_m and Co_xAu_{25-x}(SR)_m clusters: optical, electrochemical and catalytic properties (02)
- 11:00 – 12:00 **LUNCH**
- 13:00 – 17:00 Discussions
- 18:00 – 19:00 **DINNER**
- 19:30 – 20:00 **Michele Riva**
The influence of surface atomic structure on solid state electrochemistry: oxygen exchange on SrTiO₃(110) surfaces (07)
- 20:00 – 20:30 **Daniel Halwidl**
Adsorption of oxygen on Ca₃Ru₂O₇(001) (07)
- 20:30 – 21:00 **Wernfried Mayr-Schmölzer**
Adsorption of H₂O and O₂ on Ca₃Ru₂O₇(001): DFT and beyond (11)
- 21:00 – 23:00 **Poster Session**

Friday, 03. February 2017

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Thomas Götsch**
The influence of the Yttria-Content and the crystal structure on
electronic and optical properties of YSZ (03)
- 09:00 – 09:30 **Wolfgang Wallisch**
Consequences of the CMR effect on EELS in the TEM (01)
- 09:30 – 10:00 **Norbert Köpfle**
Intermetallic catalyst precursors for efficient reforming processes (03)
- 10:00 – 11:15 **General Discussion – Project Planning**
- 11:15 – 12:00 **LUNCH**
- 13:00 – 17:00 Discussions
- 18:00 – 19:00 **DINNER**
- 19:30 – 21:00 **General Assembly**

Saturday, 04. February 2017

- 07:00 – 08:00 **Breakfast**
- 08:30 Bus transfer to Vienna, Secession (return ca. 13:00)

Poster

Nevzat Yigit (P 02):

Crystal structure studies of Co-based catalysts under reaction conditions

Matteo Roiaz (P 02):

A new UHV setup including a high pressure catalysis cell for in-situ SFG spectroscopy

Manuel Corva (P 02):

The CO-induced restructuring process at near-ambient pressure: Pt nanoclusters on graphene

Abhijit Bera (P 02):

Band mapping across heterostructure nanojunctions by scanning tunneling microscopy

Xia Li (P 02):

Thermoresponsive behavior of PNIPAM polymer at air/water interface studied by sum frequency generation spectroscopy

Clara Garcia (P 02):

Chiral Aux(SR)_m clusters: synthesis and functionalization

Vera Truttmann (P 02):

Ligand exchange reactions of Au₂₅(SR)_m on surfaces

Maximilian Watschinger (P 03):

In situ/operando FTIR studies of Cu-ZrO₂ catalysts

S. Buhr, J. Zeininger, M. Datler, C. Freytag, G. Rupprechter, Y. Suchorski (P 04):

Local instabilities in H₂ oxidation observed in mesoscopic and microscopic model reaction systems

P. Winkler, J. Zeininger, S. Buhr, G. Rupprechter, Y. Suchorski (P 04):

Adaptive control of samples under tens of kilovolts: a wireless solution

Giada Franceschi (P 07):

First stages of growth of Sr-doped Lanthanum Manganite on SrTiO₃(110) revealed by in-situ scanning tunneling microscopy

Alexander Viernstein (P 09):

Oxygen exchange kinetic and diffusion in La₂CoMnO_{6-d} thin films

Edvinas Navickas (P 09):

Misfit dislocations as a fast pathway for oxygen ion diffusion in La_{0.8}Sr_{0.2}MnO₃ epitaxial thin films

Jakub Planer (P 11):

DFT studies of vacancy and oxygen diffusion in Pb(Zr,Ti)O₃



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