



Der Wissenschaftsfonds.

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

8th Annual PhD Workshop

20.– 23. March 2019
Gasthof Stenitzer, 8967 Haus im Ennstal

Wednesday, 20. March 2019

- | | |
|-------------------|--|
| 07:00 – 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 | Norbert Köpfle
Zirconium-assisted activation of palladium boosts syngas production by methane dry reforming (P 03) |
| 20:30 – 21:00 | Thomas Mayer
First principles study of yttria-stabilized-zirconia (P 11) |
| 21:00 – 23:00 | Poster Session |

Thursday, 21. March 2019

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Philipp Winkler**
Structure dependent initial oxidation of rhodium: XPS and PEEM studies (P 04)
- 09:00 – 09:30 **Johannes Zeininger**
Multifrequential oscillations in H₂ oxidation on Rh: scaling down to the nanoscale (P 04)
- 09:30 – 10:00 **BREAK**
- 10:00 – 10:30 **Michele Riva**
Growth and STM characterization of strontium-lanthanum manganite films (P 07)
- 10:30 – 11:00 **Giada Franceschi**
The surface phase diagram of strontium-lanthanum manganite(110) in STM (P 07)
- 11:00 – 12:00 **LUNCH**
- 13:00 – 17:00 Discussions
- 18:00 – 19:00 **DINNER**
- 19:30 – 20:00 **Andreas Nening**
Phase stability and redox kinetics of perovskite surfaces under electrochemical bias (P 09)
- 20:00 – 20:30 **Jakub Planer**
Ab-initio studies of the (110) surface terminations of rutile VO₂ (P 11)
- 20:30 – 22:30 **Poster Session**

Friday, 22. March 2019

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Vera Truttmann**
Chiral Au nanoclusters and their application in
asymmetric catalysis (P 02)
- 09:00 – 09:30 **Clara Garcia Yago**
Thiolate protected gold cluster as catalyst for liquid phase
reactions (P 02)
- 09:30 – 10:00 **BREAK**
- 10:00 – 10:30 **Michele Reticcioli**
Adsorption and surface structure: the impact of charge
localization (P 07)
- 10:30 – 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, 23. March 2019

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

Posters

Andreas Steiger-Thirsfeld (P 01):

Correlative EBSD, EDS and AFSEM measurements at USTEM for FOXSI

Clara Garcia Yago (P 02):

Thiolate protected gold cluster as catalyst

Klaus Dobrezberger (P 02):

CO₂ hydrogenation on Cu and Pd monometallic and bimetallic nanoparticles supported on ZnO

Daniel Hauser (P 03):

In-situ and operando DRIFTS characterization of solid state electrode materials

Clara Freytag (P 04):

Hydrogen oxidation on partially oxidized Rh: in situ PEEM studies

Maximilian Raab (P 04):

Kinetic instabilities in H₂ oxidation on Rh: road to chaos

Amy Brandt (P 05):

Yttrium influence on phase stabilization of zirconia thin films