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

7th Annual PhD Workshop  

Wednesday, 31. January 2018  

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  Thomas Götsch  
Kinetic and thermodynamic investigations of the iron exsolution in lanthanum strontium ferrite (03)  
20:30 – 21:00  Nevzat Yigit  
Preferential CO oxidation on cobalt-based perovskite materials: synthesis, characterization and catalytic activity (02)  
21:00 – 23:00  Poster Session
Thursday, 01. February 2018

07:30 – 08:30  Breakfast

08:30 – 09:00  Johannes Zeininger
Hydrogen oxidation on a µm-sized curved rhodium crystal (04)

09:00 – 09:30  Matthias Grünbacher
Properties and reactivity of adsorbed and dissolved hydrogen in acceptor-doped ceria materials (03)

09:30 – 10:00  BREAK

10:00 – 10:30  Stephan Pollitt
Stability and reactivity studies on Aun(SR)m nanoclusters supported on oxides by in-situ XAFS (02)

10:30 – 11:00  Clara Garcia
Thiolate protected gold nanoclusters, catalysts for liquid phase oxidation reactions: size and oxide support effect (02)

11:00 – 12:00  LUNCH

13:00 – 17:00  Discussions

18:00 – 19:00  DINNER

19:30 – 20:00  Peter Lackner
Tetragonal and monoclinic ZrO₂ films in STM and XPS - connections between structure and electronic states (05)

20:00 – 20:30  Giada Franceschi
In-situ investigations of thin pulsed-laser-deposited La₀.₈Sr₀.₂MnO₃ films (07)

20:30 – 21:00  Michele Riva
Pulsed Laser Deposition of thin In₂O₃(111) films on YSZ(111) (07)

21:00 – 23:00  Poster Session
Friday, 02. February 2018

07:30 – 08:30  Breakfast

08:30 – 09:00  Zdenek Jakub
Partially dissociated water dimers on hematite (1102) surface (07)

09:00 – 09:30  Alexander Hutterer
Oxygen redox kinetics at Pt electrodes on zirconia (09)

09:30 – 10:00  Jakub Planer
First-principles studies of the electronic and structural properties of rutile vanadium (IV) dioxide and surface characterization of derived VO₂(110) slabs (11)

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, 03. February 2018

07:00 – 08:00  Breakfast

08:30  Bus transfer to Vienna, Secession (return ca. 13:00)
Posters

Wolfgang Wallisch (P 01):
Investigations towards La$_2$CoMnO$_6$: Transformations of electronic and optical properties

Verena Pramhaas (P 02):
Structure effects of CO adsorption on Pt

Abdul Motin (P 02):
Surface science approach to Pt/carbon model catalysts: XPS, STM and microreactor studies

Vera Truttmann (P 02):
Ligand exchange reaction studies of Au$_{11}$ nanoclusters on surfaces

Kevin Ploner (P 03):
The quest for key parameters controlling the selectivity of Cu on different ZrO$_2$ polymorphs in methanol steam reforming

Maximilian Watschinger (P03):
In-situ and operando FTIR studies on Cu/t-ZrO$_2$ systems

Daniel Hauser (P 03):
Investigations on structure, composition and phasetransition of pyrochlore thin films

Norbert Köpfle (P 03):
Mechanism and intermediates of methane dry reforming on bimetallic PdZr surfaces studied by In-Situ XPS

C. Freytag, M. Datler, I. Bespalov, J. Zeiningter, G. Rupprechter, Y. Suchorski (P 04):
Transmitting metal-oxide interaction by solitary chemical waves: H$_2$ oxidation on Rh

P. Winkler, J. Zeiningter, S. Buhr, G. Rupprechter, Y. Suchorski (P 04):
Extracting information from high voltage environment: WiFi is the best isolator

Zhiyu Zou (P 07):
Zirconia-supported transition metal clusters and the metal-oxide interface

Alexander Viernstein (P 09):
STO and light: Where do the oxygen vacancies go?

Tobias Huber (P 09):
3-Point measurement in solid state devices: Why everybody measures artefacts

Wernfried Mayr-Schmölzer (P 11):
Meta-GGA functionals applied to the adsorption of methyl groups on Ni and Pt