



Der Wissenschaftsfonds.

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

### 7<sup>th</sup> Annual PhD Workshop

31. January– 03. February 2018, Gasthof Stenitzer, 8967 Haus im Ennstal

#### 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    | <b>Get-together and LUNCH</b>  |
| 13:30 – 16:30    | <b>Discussions</b>   |
| 18:00 – 19:30    | <b>DINNER</b>  |
| 20:00 – 20:30    | <b>Thomas Götsch</b><br>Kinetic and Thermodynamic Investigations of the Iron Exsolution in Lanthanum Strontium Ferrite (03)                    |
| 20:30 – 21:00    | <b>Nevzat Yigit</b><br>Preferential CO oxidation on cobalt-based perovskite materials: synthesis, characterization and catalytic activity (02) |
| 21:00 – 23:00    | <b>Poster Session</b>  |

## Thursday, 01. February 2018

- 07:30 – 08:30 **Breakfast**
- 08:30 – 09:00 **Johannes Zeininger**  
Hydrogen oxidation on a  $\mu\text{m}$ -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  $\text{Au}_n(\text{SR})_m$  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  $\text{ZrO}_2$  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  $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$  films (07)
- 20:30 – 21:00 **Michele Riva**  
n.n. (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 ( $1\bar{1}02$ ) surface (07)
- 09:00 – 09:30      **Alexander Hutterer (09)**  
Oxygen redox kinetics at Pt electrodes on zirconia (09)
- 09:30 – 10:00      **Jakub Planer (11)**  
First-principles studies of the electronic and structural properties of rutile vanadium (IV) dioxide and surface characterization of derived  $\text{VO}_2(110)$  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  $\text{La}_2\text{C}_0\text{MnO}_6$ : 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  $\text{Au}_{11}$  Nanoclusters on Surfaces

**N.N. (P 03):**

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

**P. Winkler**, J. Zeininger, 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