

**TACO**

TAMING COMPLEXITY  
TOGETHER

**TACO Newsletter**  
**03/2022**



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Reporting period: October – November 2022

## 1. Personnel Developments



[Thomas Haunold](#), associated with subproject P08 of Günther Ruppachter, graduated on November 10. Congratulations, Thomas!



[Yvan Jesus Olortiga Asencios](#) is visiting professor in Günther Ruppachter's subproject until December 2022.



[Carla Verdi](#), hitherto Co-PI of P03, left the University of Vienna by November 30 to take up a fellowship at the University of Sydney in January. We wish her all the best for her future!

Are there personnel developments in your TACO subproject? Tell the science manager [Stefan Uttenthaler](#) about it!

## 2. Upcoming Events



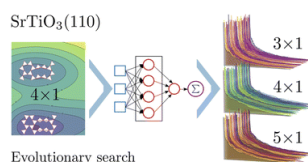
**12. – 15. February 2023:** The next TACO PhD meeting will take place in the JUFA hotel Schladming. The scientific program is under construction by Jesus, Jiri, and Moritz; it will be sent out soon. We will have invited talks by Barbara Lechner (TU Munich), Gerhard Mestl (Clariant), Livia Bartók-Pártay (University of Warwick), Jennifer Strunk (Leibniz-Institut für Katalyse), Pavel Jelinek (Palacký University, Olomouc, CZ), and Lutz Hammer (Friedrich-Alexander-University of Erlangen-Nürnberg).



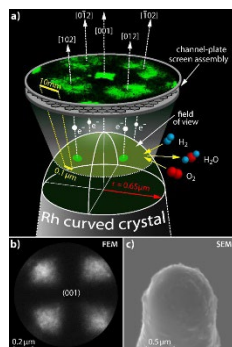
The next [TACO colloquium](#) will be given by [Alessandro Fortunelli](#) on Monday, December 12. He will talk about *Mechanisms of the Oxygen Evolution Reaction on NiFe<sub>2</sub>O<sub>4</sub> and CoFe<sub>2</sub>O<sub>4</sub> Inverse-Spinel Oxides*. The colloquium on January 23 will be given by [Hendrik Bluhm](#) (FHI Berlin); the title is still pending.

The colloquia in the summer term of 2023 will retake place at TU Wien. Preparations are underway.

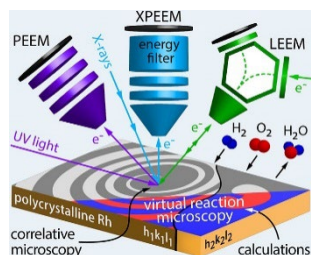
### 3. TACO Papers



Ralf Wanzanböck and co-workers from subproject P09 (Georg Madsen) published an article about [Neural-network-backed evolutionary search for SrTiO<sub>3</sub>\(110\) surface reconstructions](#) in the journal Digital Discovery.



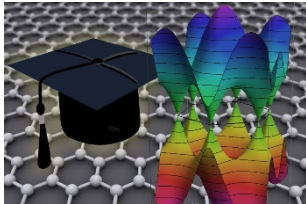
Two new papers emerged from the Rupprechter group (P08): Johannes Zeininger et al. investigated [Reaction Modes on a Single Catalytic Particle: Nanoscale Imaging and Micro-Kinetic Modeling](#). The article was featured on the cover page of ACS Catalysis, Vol. 12, Issue 20.



In a related publication by the same first author, the team studied the [Pattern Formation in Catalytic H<sub>2</sub> Oxidation on Rh: Zooming in by Correlative Microscopy](#), also in ACS Catalysis. A [TU Wien press release](#) featured the article.

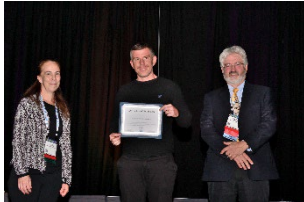
Your TACO-related article was published recently? Inform the science manager [Stefan Uttenthaler](#) about it!

## 4. New Projects and Grants



The proposal to the Austrian Science Fund for the doc.funds project [“TU-D – Towards Applications of 2D Materials and their Heterostructures”](#) was successful! The three TACO PIs Ulrike Diebold, Georg Madsen, and Gareth Parkinson are also PIs in this doctoral school, which Florian Libisch coordinates. Well done!

## 5. Awards and Achievements



On the occasion of the American Vacuum Society 68<sup>th</sup> International Symposium and Exhibition in Pittsburgh, USA, [Gareth Parkinson](#) was awarded the AVS Fellowship. Congratulations!

## 6. Miscellaneous



Patrick Rinke, Aalto University:  
Active Materials Exploration and  
Characterization with Bayesian Optimization



We have new videos of TACO Colloquia talks on our YouTube channel. Patrick Rinke (Aalto University) spoke about [\*Active Materials Exploration and Characterization with Bayesian Optimization\*](#) in October.



Ferdi Schüth, MPI f. Kohlenforschung:  
Mechanochemical and Mechanocatalytic  
Reactions in Ball Mills  
- from Voodoo to Science



TACO Colloquium  
07 November 2022

Ferdi Schüth (MPI für Kohlenforschung) presented [\*Mechanochemical and Mechanocatalytic Reactions in Ball Mills – from Voodoo to Science\*](#).



Marialore Sulpizi,  
Ruhr University Bochum:  
Structure and dynamics of solid/liquid  
interfaces from atomistic simulations



TACO Colloquium  
14 November 2022

The most recent talk was given by Marialore Sulpizi (Ruhr University Bochum). She talked about the [\*Structure and dynamics of solid/liquid interfaces from atomistic simulations\*](#).

Our YouTube channel is an excellent opportunity to follow inspiring talks even when you missed them or listen to them again. You are welcome to subscribe to the channel and give the videos some thumbs-up! Just follow the links above.

If you are on Twitter, you can follow [our account there](#); if you are on LinkedIn, you will find [the same opportunity there](#).