



Contribution ID: 89

Type: Talk

【201】 Probing solid-liquid interfaces with tender X-rays

Tuesday 27 August 2019 17:00 (30 minutes)

Many important chemical and biological processes occur at the interface between a solid and a liquid. Despite its importance, it is very difficult to collect meaningful signals from this buried interface. We recently built a new instrument at the Swiss Light Source that combines ambient-pressure X-ray photoelectron spectroscopy with in-situ electrochemistry. With this new setup, we can stabilize a thin liquid film by a dip&pull method and using tender X-rays, we can probe the solid-liquid interface while having potential control over the electrolyte film. We will present results from the first commissioning beamtime and outline the future direction we are going to pursue.

Author: Dr NOVOTNY, Zbynek (University of Zuerich)

Co-authors: Mr COMINI, Nicolò (University of Zuerich); Mr TOBLER, Benjamin (University of Zuerich); Mr AEGERTER, Dino (Paul Scherrer Institute); Dr FABBRI, Emiliana (Paul Scherrer Institute); Mr MAIER, Urs (Ferrovac GmbH); Dr ARTIGLIA, Luca (Paul Scherrer Institute); Dr RAABE, Jörg (Paul Scherrer Institute); Dr HUTHWELKER, Thomas (Paul Scherrer Institute); Prof. OSTERWALDER, Jürg (University of Zuerich)

Presenter: Dr NOVOTNY, Zbynek (University of Zuerich)

Session Classification: Surfaces, Interfaces and Thin Films

Track Classification: Surfaces, Interfaces and Thin Films