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OCT. WEBINAR



SPEAKER

Greta Grossman

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Leiden University, Netherlands

METAL / NONAQUEOUS SOLVENT INTERFACES AS ELECTROCHEMICAL MODEL SYSTEMS



DATE

28 Oct. 2026
Wednesday



TIME

14:00 CEST
(60 min)

ABSTRACT

Non-aqueous electrochemical interfaces are commonly used in batteries and electrocatalysis. However, atomic-level understanding of the electrical double layer and surface electrochemistry at these interfaces is currently limited.

In this work, we characterise metal single crystal surfaces in contact with non-aqueous electrolytes, with particular focus on the Au(111)/acetonitrile (ACN) interface. These interfaces cannot be considered ideally polarisable and electrochemical treatment results in surface modification in many cases. Here I will focus on how non-aqueous interfaces can be used as electrochemical model systems and what we can learn about the role of the solvent in electrochemical processes by replacing water with other molecules.

ABOUT THE SPEAKER

Greta Grossman is a PhD student at Leiden University working with Prof Marc Koper. She studied chemistry at Durham University and specialised in electrochemistry during her MSc degree. During her MSc thesis at College de France she studied CO₂ reduction in membrane electrode assemblies. After realising the importance of interfacial cations, she became interested in the fundamental aspects governing electrocatalytic reactions. Her PhD work focuses on characterising surface electrochemistry and understanding the role of the solvent in the electrochemical double layer (EDL) for a range of metal/non-aqueous and metal/mixed solvent interfaces.

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