



KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

dr. Alen Vižintin

D10, Department of Materials Chemistry

Četrtek / Thursday, 9. 2. 2023 ob / at 13:00

Velika predavalnica Kemijskega inštituta / Great Lecture Hall

WEBEX

<https://ki-ljubljana.webex.com/ki-ljubljana/j.php?MTID=ma8d388b2677f42c40283f67b6ac1fa2f>

Join by meeting number (access code): 2730 444 9527

Meeting password: gnVYjMPt878

Operando studies - do we really know what is happening inside a battery?

To speed up the development of innovative battery chemistries we need to develop new and improve current battery characterization techniques. An ideal battery characterization would be straightforward, non-invasive, non-destructive and optimized to probe specific battery chemistry. It should provide information about the electrochemical mechanism, degradations during prolonged cycling and allow real-time (operando) monitoring of the battery's state-of-health. In order to gain this information, different techniques have already been applied, such as X-ray diffraction (XRD), X-ray absorption (XAS), small angle X-ray scattering (SAXS), small angle neutron scattering (SANS), nuclear magnetic resonance (NMR), IR spectroscopy and many others.



Vljudno vabljeni / Kindly invited