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NOV. WEBINAR



STANDARDIZATION IN ELECTROCHEMISTRY: FROM REPORTING GUIDELINES TO FAIR DATA

DATE
25 Nov. 2026
Wednesday

TIME
14:00 CET
(60 min)

SPEAKER
Prof. Albert K. Engstfeld
Institute of Electrochemistry,
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ABSTRACT

Electrochemistry has standardized its terminology and reporting for more than fifty years, from IUPAC recommendations to recent journal guidelines. Yet these efforts target the printed article rather than the data behind it: experiments remain hard to compare or reproduce, and open, well-annotated data for machine learning are scarce. This webinar traces the history of standardization in electrochemistry, summarizes ongoing initiatives, and uses echemdb, a community database of cyclic voltammograms, to show how data and metadata can be made FAIR. Finally, I outline how such a community approach could close this gap, and how research networks such as EU-CONCERT, data infrastructures, learned societies, publishers, and standardization bodies could each contribute.

ABOUT THE SPEAKER

Albert K. Engstfeld is a private lecturer (PD) at the Institute of Electrochemistry, Ulm University, Germany, where he leads the Experimental Plasma & Catalysis group. He received his PhD from Ulm University and was an H.C. Ørsted postdoctoral fellow at DTU, Denmark. In 2025 he completed his habilitation in physical chemistry. His research combines surface science and electrochemistry to study single-crystal electrodes, electrocatalysis, and plasma electrolysis. He co-initiated echemdb, an open platform for electrochemical data, and is a PI in NFDI4Chem, where he develops data standards for electrochemistry.

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Funded by the European Union