



Contribution ID: 28

Type: not specified

Piezo-controlled micro-ATR for detecting real-time interfacial reactions inside a battery

Friday, 1 November 2024 10:00 (30 minutes)

Dr. Sailin Liu is an ARC-funded Industry Early Career Research Fellow (IE24) at the University of Adelaide. She is also an associate investigator at the ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide. She is an emerging leader in materials science and electrochemistry, demonstrating productivity and influence throughout her career since completing her PhD in 2021. Her research focuses on developing non-flammable electrolytes and stable electrode/electrolyte interfaces for lithium metal, potassium ion, and zinc ion batteries. Dr. Liu has expertise in electrolyte research, fostering industrial skills and research collaborations. She has extensive experience utilizing Synchrotron PD and FT-IR beamlines and had been awarded the AINSE-PGRA and AINSE-ECRG for her work with in-situ Synchrotron FTIR in Australia, enhancing her research in the battery field.

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