

# The 119<sup>th</sup> GREEN Seminar



## Powering Up: Electrolytes in Energy Storage Systems

*Chair: Dr. Shoichi Matsuda(GREEN)*

**Prof. George Nikiforidis**

(University College London, UK)

Electrolytes are crucial components of energy storage systems, governing ion transport influencing electrochemical performance, safety, and device longevity. As demand grows for efficient, scalable, and safer storage technologies, the design of robust and (chemically) stable electrolytes has become a key research priority. This talk will explore the role of electrolytes in various systems including lithium-ion batteries, redox flow batteries, and supercapacitors highlighting how tailored electrolyte formulations address specific challenges and enable improved electrochemical functionality across diverse applications.

**Venue:** Rm. 409/410, 4F, Collaborative Research Bldg.,  
Namiki-site

**Date & Time:** 13:30-14:30, Wednesday, 3 Sep. 2025

**Language:** English

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