



University of Antwerp
| ELCAT | Applied Electrochemistry
and Catalysis



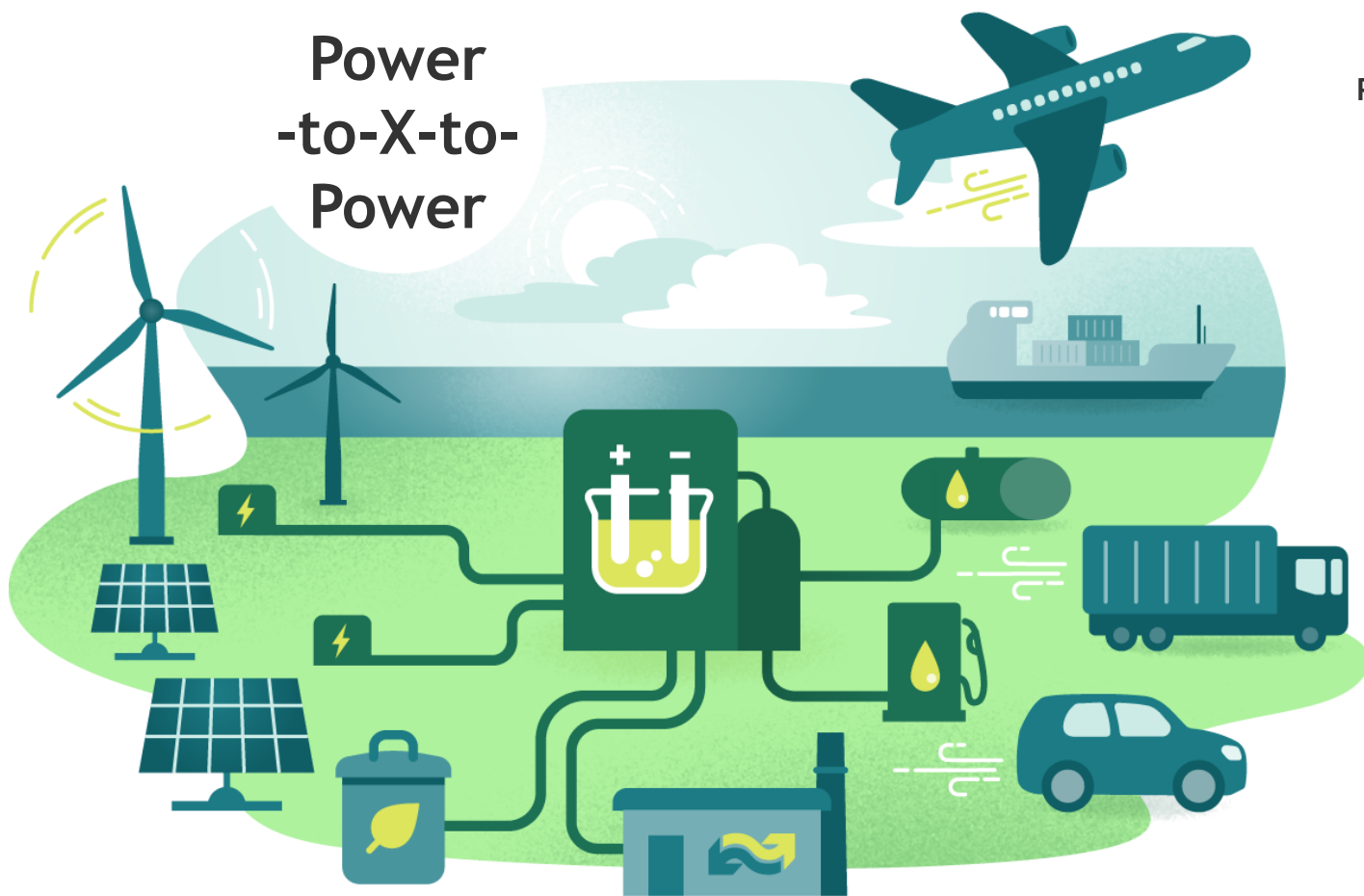
Electrification Institute
Powered by UAntwerp

Applied Electrochemistry & Catalysis

Prof. Jonas Hereijgers

Our mission

Power
-to-X-to-
Power



Prof. Tom Breugelmans

Power-to-X

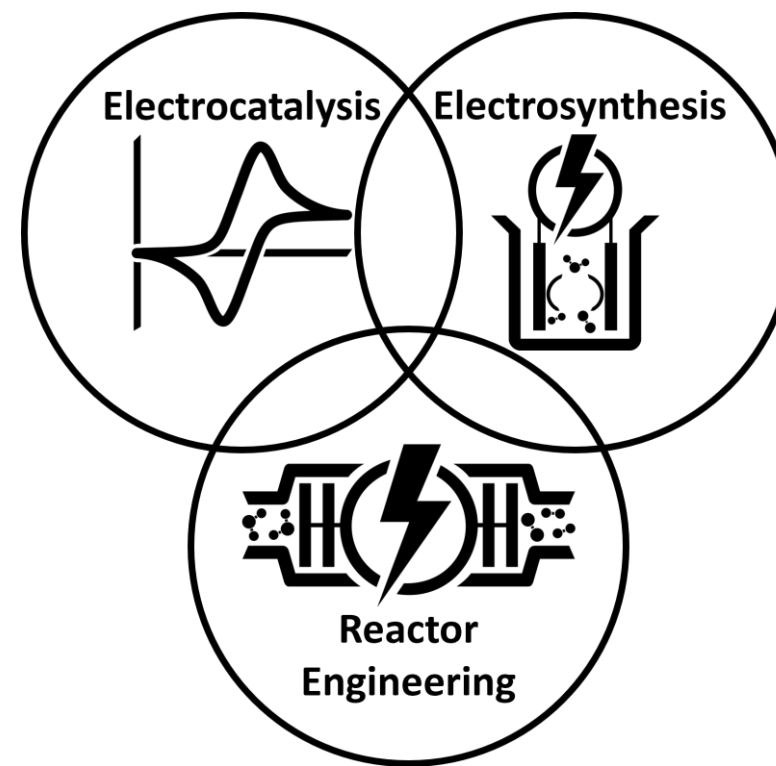


Prof. Jonas Hereijgers

X-to-Power

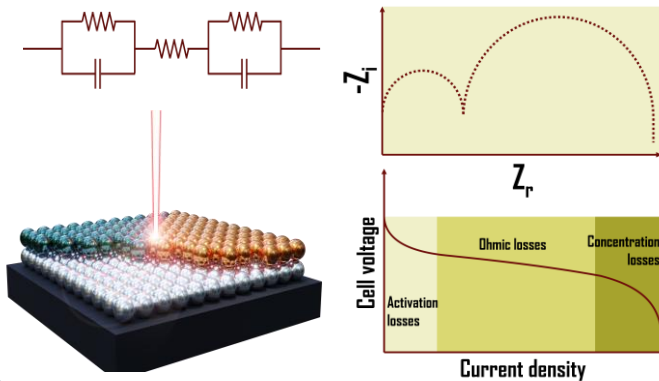
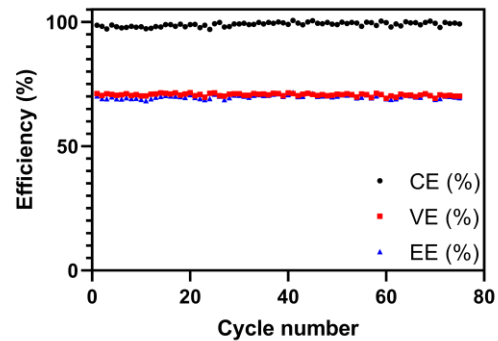


45+ Researchers

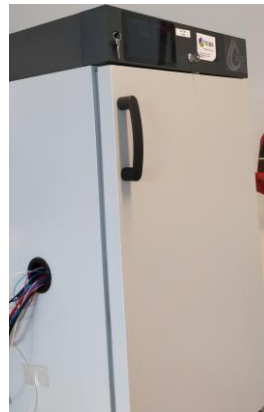
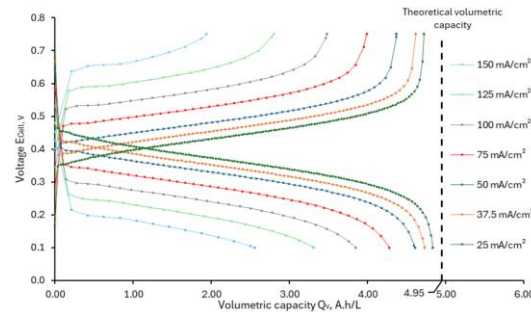


Expertise on battery screening

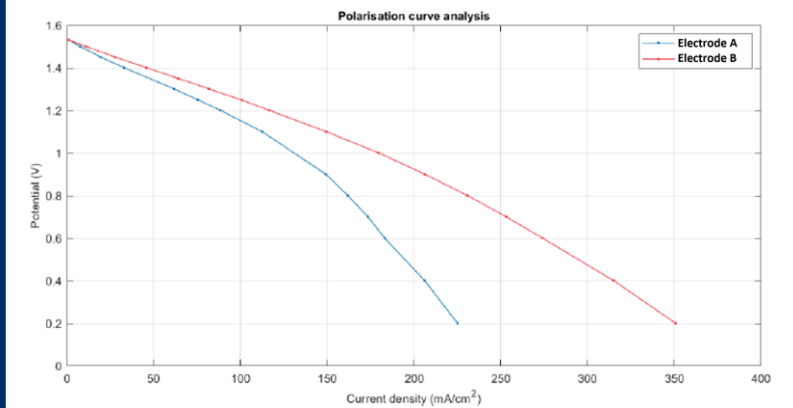
Electrochemical characterization



Accelerated ageing testing



Electrochemical engineering



Project I: Screening of new materials

Accelerated ageing testing



Temperature



Charge rate



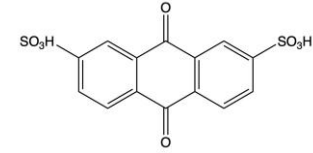
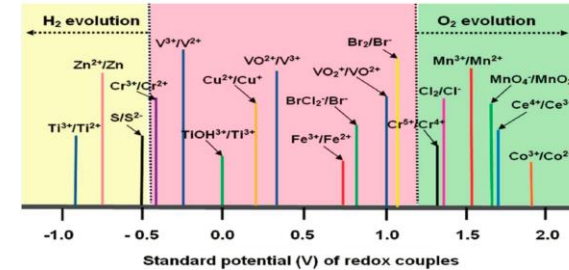
SoC, DoD, cut-off voltage



Cell-in-series

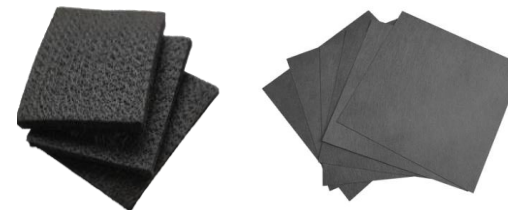


Chemistry



Battery materials

Electrodes



Membranes

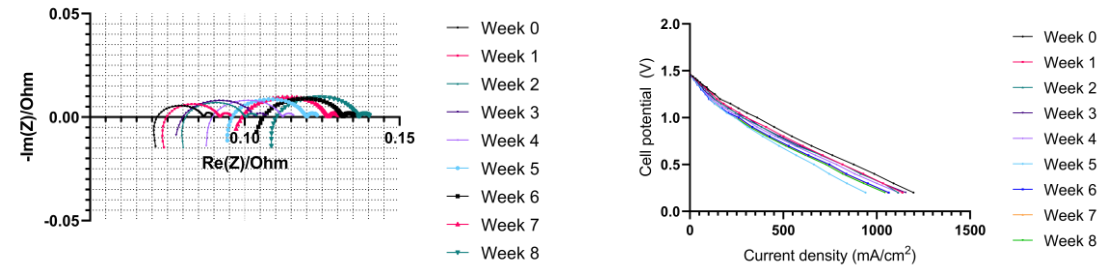


Project II: State of Health modelling

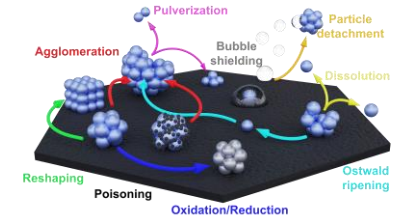
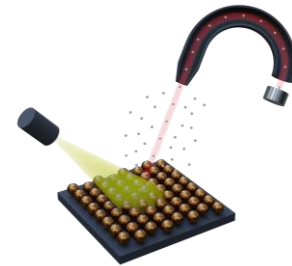
Topic: assessment of the State of Health and Remaining useful Life



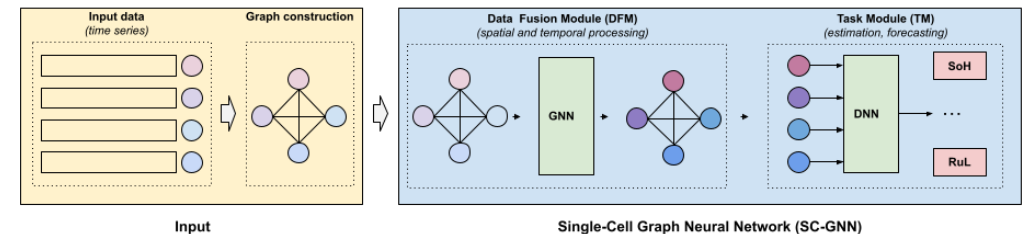
Acquire operational data



Assess ageing mechanisms



Develop SoH & RuL models



Thank you!

Visit us at the network reception



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