

Joint Workshop

4TU.Energy & 4TU.High-Tech Materials

on

Energy materials, technologies, and sustainable recycling strategies

De Witte Vosch (Utrecht), Tuesday 13 May 2025

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Aim of the workshop

This joint workshop is targeted to early stage researchers to meet and find their common ground on energy materials and sustainable recycling strategies; it is the opportunity to get together to share knowledge and explore collaborations. If it is successful in content and in organization, follow-ups workshop on other topics or joint efforts on funding proposals can be expected.

Materials for Electrochemical Applications & Electrochemistry, Fuel Cells, Electrolysers, CO₂ Capture & Conversion

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Scientific Committee

Ruud Kortlever (TUD)
Francesco Maresca (RUG)
Mina Shahi (UT)
Amir Mahmoudi (UT)
Akbar Asadi Tashvigh (WUR)
Diletta Giuntini (TU/e)
Davoud Javari (UT)
Maja Rücker (TU/e)

Organisation

Reina Boerrigter – 4TU.HTM (TUD)
Sha Lou – 4TU.Energy (TU/e)

9.30	Walk-in and coffee	
10.00 - 10.10	Welcome Arjan Mol (TU Delft, scientific director 4TU.HTM) and David Smeulders (TU Eindhoven, scientific director 4TU.Energy)	
10.10 – 11.30	<i>Plenary session on Energy materials</i> Introduction by the chair of this session (5)- <u>Diletta Giuntini</u> Marta Costa Figueiredo (TU/e) - Material challenges in electrocatalysis – unravelling active sites Harry Bitter (WUR) - Supported potassium carbonate and dual functional materials for direct air capture and conversion Panel discussion <i>and move into parallel sessions</i>	
11.40 – 12.20	<u>Chair: Francesco Maresca</u> Materials for Fuel Cells Vassilis Kyriakou (RUG) Aayan Banerjee (UT)	<u>Chair: Amir Mahmoudi</u> Materials for CO ₂ capture Louis de Smet (WUR) Talk (15+5)
12.20 – 13.30	Lunch + posters	
13.30 – 14.30 (25+5) (25+5)	<u>Chair: Akbar Asadi Tashvigh</u> <i>Plenary session on Sustainable Recycling Strategies</i> Ian Gibson (UT) – Remanufacturing: a new challenge for AM Shoshan Abrahami (TUD) – Recycling Strategies for Energy Materials	
14.30 – 15.00	<i>Poster / Pitch Session</i>	
15.00 – 15.30	Break + posters	
15.30 – 16.00	<u>Chair: Davoud Jafari</u> Materials for Electrolysers Marco Altomare (UT) Khatereh Roohi (TUD) Talk (15+5)	<u>Chair: Ruud Kortlever</u> CO ₂ Capture & Conversion processes Jingxiu Xie (RUG) Elsa Best (15+5) Talk (15+5)
16.30– 17.30	Closure, drinks & bites	