4TU.Energy

4TU.HTM

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)





UNIVERSITY OF TWENTE.





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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	Plenary session on Energy materials	
10.10 - 10.15	Introduction by the chair of this session (5)- <u>Diletta Giuntini</u>	
10.15 - 10.45 (25+5) 10.45 - 11.15	Marta Costa Figueiredo (TU/e) - Material challenges in electrocatalysis – unravelling active sites	
(25+5) 11.15 - 11.30	Harry Bitter (WUR) - Supported potassium carbonate and dual functional materials for direct air capture and conversion	
11.13 11.30	Panel discussion and move into parallel sessions	
11.40 - 12.20	<u>Chair: Francesco Maresca</u> Materials for Fuel Cells	Chair: Amir Mahmoudi Materials for CO ₂ capture
11.40 - 12.00 12.00 - 12.20	Vassilis Kyriakou (RUG) Ayaan Banerjee (UT)	Louis de Smet (WUR) Talk (15+5)
12.20 - 13.30	Lunch + posters	
13.30 - 14.30	Chair: Akbar Asadi Tashvigh Plenary session on Sustainable Recycling Strategies	
(25+5)	Ian Gibson (UT) - Remanufacturing: a new challenge for AM	
(25+5)	Shoshan Abrahami (TUD) – Recycling Strategies for Energy Materials	
14.30 - 15.00	Poster / Pitch Session	
15.00 - 15.30	Break + posters	
15.30 - 16.00	<u>Chair: Davoud Jafari</u> Materials for Electrolysers	Chair: Ruud Kortlever CO ₂ Capture & Conversion processes
15.30 - 15.50 15.50 - 16.10 16.10 - 16.30	Marco Altomare (UT) Khatereh Roohi (TUD) Talk (15+5)	Jingxiu Xie (RUG) Elsa Best (15+5) Talk (15+5)
16.30- 17.30	Closure, drinks & bites	





