



DTU Energy PhD symposium 2021



Poster session A

The poster presenters will be available at their posters at 15:00 – 15:40

Prize evaluation panel:

Peter Stanley Jørgensen (Chair), Marie Lund Traulsen and David Aili

A1: *Aiswarya Padinjarethil*, Understanding Ni-CGO reaction mechanisms in SOFC using symmetric and full cells

A2: *Alexandros Pasadakis-Kavounis*, Organic redox flow batteries

A3: *Anders Kring Clausen*, Investigation Ni/YSZ electrode degradation of commercial SOEC operated under different current densities and fuel utilizations for CO₂ electrolysis

A4: *Andreas Lynge Vishart*, Accelerating catalysis simulations using surrogate machine learning models

A5: *Ashwin Nambi*, A new class of crystalline porous materials for electrochemical conversion of CO₂

A6: *Baichen Liu*, Electrode microstructure designs for boosting in-reactor performance in redox flow batteries

A7: *Bhavana Parackal*, Autonomous reaction synthesis and optimisation using in-situ characterisation tools

A8: *Carlos Imbaquingo*, Energy harvesting with permanent magnets

A9: *Changzhi Ai*, Computational studies of palladium hydride on CO₂ reduction

A10: *David Tran*, Organic electrosynthesis for integration of renewable electricity into sustainable plastics, polymers and chemicals

A11: *Dmytro Serhiichuk*, Novel polymer electrolyte membranes for alkaline water electrolysis

A12: *Elena Marzia Sala*, The promise of ceria-based electrocatalysts for CO₂ reduction in HT-SOECs

A13: *Enzo Moretti*, SeaCat - Catalysts for direct electrolysis of seawater

A14: *Jens Ole Christensen*, Electrochemical characterization of SoA-Ni/YSZ cermet and 3G MS-LSFNT fuel cells in steam/hydrogen-, steam/methane- and CO-conditions from 750 to 620 C

A15: *Kai Knobloch*, Can rocks solve our energy storage problem?

A16: *Kai Zheng*, Electronic structure of Sb₂Se₃

A17: *Kristoffer Graae*, In situ XRD study of phase transitions in Zn-air battery anodes

A18: *Kun Wang*, Additive manufacturing for functional devices

A19: *Mette Bybjerg Brock*, 2D superconducting neutron detectors

A20: *Morten Phan Klitkou*, Moving beyond the Ni-YSZ fuel electrode in SOC

A21: *Neetu Rani*, Thermoelectric transport measurement using micro four point probe (M4PP)

A22: *Nicola Mazzanti*, Doped cerium oxide as fuel electrodes for high temperature electrochemical water splitting
