



DTU Energy PhD symposium 2021



Oral presentations

Track 1 – Chair: Jens Oluf Jensen
Prize evaluation panel:
Peter Holtappels and Poul Norby

10:25 – *Gianni Ferrero*, Effect of BaTiO₃ seeding on the piezoelectric properties of mechanochemically activated 0.67BiFeO₃-0.33BaTiO₃ ceramics
11:25 *Kyriakos Didilis*, Hybrid 3D printing of ferroelectric super-structures for electromechanical energy systems
Thomas Marangoni, Fast microscale temperature coefficient of resistance measurement method

Track 2 – Chair: Jens Wenzel Andreasen
Prize evaluation panel:
Søren Bredmose Simonsen and Ivano Castelli

Michael Sørensen, Watching paint dry
Azat Slyamov, Multi-scale, multi-modal, and multi-dimensional imaging of functional materials
Marcial Fernández Castro, Towards scalability of high efficiency NFA systems using temperature controlled slot-die coating

12:50 – *August Edwards Guldberg Mikkelsen*, Machine learning study of OH adsorption at the Pt(111) interface
13:50 *Sukanya Sinha*, Computational design of electrocatalysts for the oxygen reduction reaction
Qingjie Wang, High performance nano-LaCoO₃ infiltrated BaZr_{0.8}Y_{0.2}O_{3-δ} composite oxygen electrode for protonic ceramic electrolysis cells

Elise Otterlei Brenne, A physical model for microstructural characterization and segmentation of 3D tomography data
Yousif Muhammad, Thermal energy storage in rocks

14:05 – *Yongfang Chen*, Composite membranes for high temperature PEM fuel cells
14:45 *Florian Gellrich*, Characterizing high-performing electrocatalysts for the industrial alkaline water electrolysis

Jierong Liang, Comparable study of active magnetic regenerators
Emil Blaabjerg Poulsen, Micromagnetic exchange field calculations for unstructured meshes