



# DTU Energy PhD symposium 2021



## Poster session B

The poster presenters will be available at their posters at 15:40 – 16:20

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### Prize evaluation panel:

**Rasmus Bjørk (Chair), Astri Bjørnetun Haugen and Heine Anton Hansen**

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B1: <i>Pernille Pedersen</i> , 2D transition metal dichalcogenides for electrocatalytic CO <sub>2</sub> reduction	B12: <i>Vasileios Bilalis</i> , Modeling of degradation mechanisms in solid oxide electrolysis cells
B2: <i>Quan Zhou</i> , Moving toward the optimal particle size and distribution of Pt-RE catalysts	B13: <i>Victor Rosendal</i> , Modelling of nanoscale heat and charge transport
B3: <i>Ricci Erlandsen</i> , Next-generation magnetic sensors	B14: <i>Waynah Lou Dacayan</i> , In situ electrochemical TEM experiments on solid oxide electrolysis materials
B4: <i>Sanser Celenk</i> , Combined effects of anode feed dilution and CO poisoning in high temperature PEM fuel cells with varying anode Pt loading	B15: <i>Xanthi Georgolamprou</i> , Proton conducting ceramics for hydrogen extraction
B5: <i>Shu Wang</i> , Redox-stable and efficient fuel electrodes for SOCs	B16: <i>Xin Yang</i> , MD simulations of gold-water interface
B6: <i>Shuang Han</i> , Machine learning accelerated global optimization of bimetallic NiPt catalysts for methane steam reforming	B17: <i>Yichen Wu</i> , Multiferro thin film by pulsed deposition for efficient electromechanical energy conversion
B7: <i>Sina Jafarzadeh</i> , Fabrication of 3d printable magnetically functional materials	B18: <i>Yifan Xia</i> , Ion conducting highway
B8: <i>Smobin Vincent</i> , Computational design of alloy anodes for magnesium batteries	B19: <i>Yijing Shang</i> , Phase field modeling of 3D microstructure evolution of nano-sized electrocatalysts decorated Ni-ytria stabilized zirconia electrodes for solid oxide electrolysis cells
B9: <i>Stefan Pollok</i> , Inverse design of magnetic fields using deep learning	B20: <i>Zhenyun Lan</i> , Effect of anion order and strain on the oxygen evolution reaction in perovskite oxynitrides
B10: <i>Thierry Désiré</i> , Graphene based extraordinary magnetoresistive materials	B21: <i>Zhipeng Zhou</i> , Improving the efficiency and dynamic performance of metal-supported solid oxide fuel cells by additive manufacturing
B11: <i>Tipaporn Patniboon</i> , A stability study of PBI polymer in alkaline electrolyte	B22: <i>Zhongtao Ma</i> , Electrochemical TEM experiments on solid oxide cells

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