Department of Energy Conversion and Storage - DTU Orbit (05/08/2018)

Department of Energy Conversion and Storage
Technical University of Denmark
Organisational unit: Department

Publications:

2D hole gas seen
Publication: Research › Comment/debate – Annual report year: 2018

A Ba-free sealing glass with a high CTE and excellent interface stability optimized for SOFC/SOEC stack applications
Publication: Research - peer-review › Journal article – Annual report year: 2018

Acid Distribution and Durability of HT-PEM Fuel Cells with Different Electrode Supports
Publication: Research - peer-review › Journal article – Annual report year: 2018

Adiabatic and Nonadiabatic Charge Transport in Li-S Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2018

Amorphous saturated Cerium-Tungsten-Titanium oxide nanofibers catalysts for NOx selective catalytic reaction
Publication: Research - peer-review › Journal article – Annual report year: 2018

Analysing impact of oxygen and water exposure on roll-coated organic solar cell performance using impedance spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Novel Algorithm for Lifetime Extrapolation, Prediction, and Estimation of Emerging PV Technologies
Publication: Research - peer-review › Journal article – Annual report year: 2018

A novel catalyst layer structure based surface-patterned Nafion® membrane for high-performance direct methanol fuel cell
Publication: Research - peer-review › Journal article – Annual report year: 2018

Assessment of potential biomass energy production in China towards 2030 and 2050
Zhao, G. 2018 In : International Journal of Sustainable Energy. 37, 1, p. 47-66
Publication: Research - peer-review › Journal article – Annual report year: 2016

A three dimensional multiphysics model of a solid oxide electrochemical cell: A tool for understanding degradation
Publication: Research - peer-review › Journal article – Annual report year: 2018

A topology optimized switchable permanent magnet system
Bjørk, R. & Insinga, A. R. 2018 In : Journal of Magnetism and Magnetic Materials. 465, p. 106-113
Carbon Deposition Diagnostics for Reliability and State-of-Health Assessment of SOFC
Publication: Research - peer-review › Journal article – Annual report year: 2018

Carbon Deposition Diagnostics for Reliability and State-of-Health Assessment of SOFC
Ploner, A., Hagen, A. & Hauch, A. 2018 In : ECS Transactions. 85, 4, p. 25-32
Publication: Research - peer-review › Journal article – Annual report year: 2018

Catalyst Degradation Under Potential Cycling as an Accelerated Stress Test for PBI-Based High-Temperature PEM Fuel Cells - Effect of Humidification
Publication: Research - peer-review › Journal article – Annual report year: 2018

Catalyst evaluation for oxygen reduction reaction in concentrated phosphoric acid at elevated temperatures
Publication: Research - peer-review › Journal article – Annual report year: 2018

Changing the Usual Interpretation of the Structure and Ground State of Cu^{2+}-Layered Perovskites
Publication: Research - peer-review › Journal article – Annual report year: 2018

Chemically controlled interfacial nanoparticle assembly into nanoporous gold films for electrochemical applications
Publication: Research - peer-review › Journal article – Annual report year: 2018

Citrate- and glycerol triesters as novel dual-functional dispersants and plasticisers for ceramic processing
Publication: Research - peer-review › Journal article – Annual report year: 2018

Classical statistical methodology for accelerated testing of Solid Oxide Fuel Cells
Publication: Research - peer-review › Journal article – Annual report year: 2018

Co-deposition of CuO and Mn_{1.5}Co_{1.5}O_{4} powders on Crofer22APU by electrophoretic method: Structural, compositional modifications and corrosion properties
Publication: Research - peer-review › Journal article – Annual report year: 2018

Combination selection of a two-dimensional 3d-TM-tetracyanoquinodimethane (TM-TCNQ) monolayer as a high-activity nanocatalyst for CO oxidation
Publication: Research - peer-review › Journal article – Annual report year: 2018
Publication: Research - peer-review › Journal article – Annual report year: 2018

Cr- and Ti-Based Spinels as Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics
Publication: Research - peer-review › Journal article – Annual report year: 2018

Cr- and Ti-Based Spinels As Materials for Anodic Catalyst Support in PEM Electrolysis Cells: Assessing Corrosion Stability and Support Role in Catalyst Activity of Corrosion Stable Ceramics
Publication: Research - peer-review › Journal article – Annual report year: 2018

Critical current density improvements in MgB2 superconducting bulk samples by K2CO3 additions
Publication: Research - peer-review › Journal article – Annual report year: 2018

Critical current density in (YBa2Cu3O7−δ)1−x–(PrBa2Cu3O7−δ)x melt-textured composites
Publication: Research - peer-review › Journal article – Annual report year: 2018

Defect states and room temperature ferromagnetism in cerium oxide nanopowders prepared by decomposition of Ce-propionate
Mihalache, V., Grivel, J. C. & Secu, M. 2018 In : Materials Chemistry and Physics. 209, p. 121-133
Publication: Research - peer-review › Journal article – Annual report year: 2018

Deposition of highly oriented (K,Na)NbO3 films on flexible metal substrates
Grivel, J-C., Thydén, K., Bowen, J. R. & Bjornetun Haugen, A. 2018 In : Thin Solid Films. 650, p. 7-10
Publication: Research - peer-review › Journal article – Annual report year: 2018

Design and testing of a heat transfer sensor for well exploration tools
Publication: Research - peer-review › Journal article – Annual report year: 2018

Design of Nickel-based cation-disordered rock-salt oxides: The effect of transition metal (M = V, Ti, Zr) substitution in LiNi0.5M0.5O2 binary systems
Publication: Research - peer-review › Journal article – Annual report year: 2018

Design of Thermal Systems Using Topology Optimization
Publication: Research › Ph.D. thesis – Annual report year: 2018

Developing Smart Islands in the Adriatic Sea
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Development of high temperature mechanical rig for characterizing the viscoplastic properties of alloys used in solid oxide cells
Publication: Research - peer-review › Journal article – Annual report year: 2018

DFT study of stabilization effects on N-doped graphene for ORR catalysis
Publication: Research - peer-review › Journal article – Annual report year: 2018

Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO₃ Epitaxial Thin Film System
Publication: Research - peer-review › Journal article – Annual report year: 2018

Distinct Nature of Static and Dynamic Magnetic Stripes in Cuprate Superconductors
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effect of dimethyl carbonate (DMC) on the electrochemical and cycling properties of solid polymer electrolytes (PVP-MSA) and its application for proton batteries
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effect of pre-oxidation on the oxidation resistance of Crofer 22 APU
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effect of spherical porosity on co-fired dense/porous zirconia bi-layers cambering
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effect of the sol-gel conditions on the morphology and SCR performance of electrospun V-W-TiO₂ catalysts
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effects of accelerated degradation on metal supported thin film-based solid oxide fuel cell
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effects of Zr Doping on Magnetic and Structural Properties of DyBa₂Cu₃O₇−δ Thin Films
Publication: Research - peer-review › Journal article – Annual report year: 2018

Elastocaloric effect vs fatigue life: Exploring the durability limits of Ni-Ti sheets under pre-strain conditions for elastocaloric cooling
Publication: Research - peer-review › Journal article – Annual report year: 2018
Electric field-assisted pressureless sintering gadolinium-, yttrium- and samarium-doped barium cerate
Publication: Research - peer-review › Journal article – Annual report year: 2018

Electrochemical performances of LiNi_{1-x}MnxPO_{4} (x=0.05–0.2) olivine cathode materials for high voltage rechargeable lithium ion batteries
Publication: Research - peer-review › Journal article – Annual report year: 2018

Electrochemical probing into the active sites of graphitic-layer encapsulated iron oxygen reduction reaction electrocatalysts
Publication: Research - peer-review › Journal article – Annual report year: 2018

Electron mobility in oxide heterostructures: Topical review
Publication: Research - peer-review › Journal article – Annual report year: 2018

Publication: Research › Other contribution – Annual report year: 2018

Energy storage innovation challenge
Publication: Research - peer-review › Report chapter – Annual report year: 2018

Enhanced Oxygen Reduction Activity by Selective Anion Adsorption on Non-Precious-Metal Catalysts
Publication: Research - peer-review › Journal article – Annual report year: 2018

Enhanced visible light catalytic activity of MoS2/TiO2/Ti photocathode by hybrid-junction
Publication: Research - peer-review › Journal article – Annual report year: 2018

Enzyme Immobilization on Inorganic Surfaces for Membrane Reactor Applications: Mass Transfer Challenges, Enzyme Leakage and Reuse of Materials
Publication: Research - peer-review › Journal article – Annual report year: 2018

Evaluation of electrodeposited Mn-Co protective coatings on Crofer 22 APU steel
Publication: Research - peer-review › Journal article – Annual report year: 2018

Experimental and numerical comparison of multi-layered La(Fe,Sn,Mn)_{13}H_y active magnetic regenerators
Experimental investigation of different fluid flow profiles in a rotary multi-bed active magnetic regenerator device
Publication: Research - peer-review › Journal article – Annual report year: 2018

Extreme Reconfigurable Nanoelectronics at the CaZrO3/SrTiO3 Interface
Publication: Research - peer-review › Journal article – Annual report year: 2018

Fabricating eco-friendly nanocomposites of SiC with morphologically-different nano-carbonaceous phases
Publication: Research - peer-review › Journal article – Annual report year: 2018

Fluctuation-induced conductivity in melt-textured Pr-doped YBa2Cu3O7-δ composite superconductor
Publication: Research - peer-review › Journal article – Annual report year: 2018

Frequency- and temperature-dependent dielectric response in hybrid molecular beam epitaxy-grown BaSnO3 films
Nunn, W., Prakash, A., Bhowmik, A., Haislmaier, R., Yue, J., García Lastra, J. M. & Jalan, B. 2018 In : A P L Materials. 6, 6 p., 066107
Publication: Research - peer-review › Journal article – Annual report year: 2018

Highly porous CeO2 nanostructures prepared via combustion synthesis for supercapacitor applications
Publication: Research - peer-review › Journal article – Annual report year: 2018

High stability of benzotriazole and benzodithiophene containing medium band-gap polymer solar cell
Publication: Research - peer-review › Journal article – Annual report year: 2018

High-Temperature Thermal Energy Storage for electrification and district heating
Publication: Research - peer-review › Journal article – Annual report year: 2018

High-temperature thermoelectric properties of Na- and W-Doped Ca3Co4O9 system
Hira, U., Han, L., Norman, K., Christensen, D. V., Pryds, N. & Sher, F. 2018 In : R S C Advances. 8, 22, p. 12211–12221
Publication: Research - peer-review › Journal article – Annual report year: 2018

Immunity of the Fe-N-C catalysts to electrolyte adsorption: phosphate but not perchloric anions
Publication: Research - peer-review › Journal article – Annual report year: 2018

Impact of Polar Edge Terminations of the Transition Metal Dichalcogenide Monolayers during Vapor Growth
Publication: Research - peer-review › Journal article – Annual report year: 2018
Influence of different technologies on dynamic pricing in district heating systems: Comparative case studies
Publication: Research - peer-review › Journal article – Annual report year: 2018

Influence of iridium doping in MgB2 superconducting wires
Grivel, J-C. 2018 In : Physica C: Superconductivity and its Applications. 547, p. 7-15
Publication: Research - peer-review › Journal article – Annual report year: 2018

Influence of porosity on mechanical properties of tetragonal stabilized zirconia
Boccaccini, D., Frandsen, H. L., Soprani, S., Cannio, M., Klemensø, T., Gil, V. & Hendriksen, P. V. 2018 In : Journal of the European Ceramic Society. 38, 4, p. 1720-1735
Publication: Research - peer-review › Journal article – Annual report year: 2018

InGaN/GaN ultraviolet LED with a graphene/AZO transparent current spreading layer
Publication: Research - peer-review › Journal article – Annual report year: 2018

In-operando spatially resolved probing of solid oxide electrolysis/fuel cells
Publication: Research › Ph.D. thesis – Annual report year: 2018

Integration of a magnetocaloric heat pump in a low-energy residential building
Publication: Research - peer-review › Journal article – Annual report year: 2018

Investigation of particle size effects in catalysis by applying a size controlled and surfactant-free synthesis of colloidal nanoparticles in alkaline ethylene glycol - The case study of the oxygen reduction reaction on Pt
Publication: Research - peer-review › Journal article – Annual report year: 2018

Intercalation of lithium into disordered graphite in a working battery
Publication: Research - peer-review › Journal article – Annual report year: 2018

Investing particle size effects in catalysis by applying a size controlled and surfactant-free synthesis of colloidal nanoparticles in alkaline ethylene glycol - The case study of the oxygen reduction reaction on Pt
Publication: Research - peer-review › Journal article – Annual report year: 2018

Investment casting and experimental testing of heat sinks designed by topology optimization
Publication: Research - peer-review › Journal article – Annual report year: 2018

Joining of Half-Heusler and Bismuth Tellurides for Segmented Thermoelectric Generators
Ngan, P. H., Han, L. & Christensen, D. V. 2018 In : Journal of Electronic Materials. 47, 1, p. 701-710
Publication: Research - peer-review › Journal article – Annual report year: 2018

La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-δ} nanofiber cathode for intermediate-temperature solid oxide fuel cells by water-based sol-gel electrospinning: Synthesis and electrochemical behaviour
Publication: Research - peer-review › Journal article – Annual report year: 2018
LCA of Energy Systems
Publication: Education - peer-review › Book chapter – Annual report year: 2017

Life Cycle Assessment of Hydrogen Production and Consumption in an Isolated Territory
Zhao, G. & Pedersen, A. S. 2018 In : Procedia C I R P. 69, p. 529-533
Publication: Research - peer-review › Conference article – Annual report year: 2018

Lithium Conductivity and Ions Dynamics in LiBH4/SiO2 Solid-Electrolytes studied by Solid-State NMR and Quasi Elastic Neutron Scattering and applied in Lithium-Sulfur Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2018

Localized carbon deposition in solid oxide electrolysis cells studied by multiphysics modeling
Navasa, M., Frandsen, H. L., Skaife, T. L., Sundén, B. & Graves, C. 2018 In : Journal of Power Sources. 394, p. 102-113
Publication: Research - peer-review › Journal article – Annual report year: 2018

Long-Term Durability of PBI-Based HT-PEM Fuel Cells: Effect of Operating Parameters
Publication: Research - peer-review › Journal article – Annual report year: 2018

Machine learning-based screening of complex molecules for polymer solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2018

Magnetoeelastic phase diagram of TbNi2B2C
Publication: Research - peer-review › Journal article – Annual report year: 2018

Mechanical stability of roll-to-roll printed solar cells under cyclic bending and torsion
Publication: Research - peer-review › Journal article – Annual report year: 2018

Melting behaviour of raw materials and recycled stone wool waste
Publication: Research - peer-review › Journal article – Annual report year: 2018

Metal Oxide-Based Thin Film Structures
Publication: Communication › Book – Annual report year: 2018

MgO as a non-pyrolyzable pore former in porous membrane supports
Haugen, A. B., Geffroy, A., Kaiser, A. & Gil, V. 2018 In : Journal of the European Ceramic Society. 38, 9, p. 3279-3285
Publication: Research - peer-review › Journal article – Annual report year: 2018

Modelling smart energy systems in tropical regions
Publication: Research - peer-review › Journal article – Annual report year: 2018
Nanoscale patterning of electronic devices at the amorphous LaAlO3/SrTiO3 oxide interface using an electron sensitive polymer mask
Publication: Research - peer-review › Journal article – Annual report year: 2018

Noise Phenomena in Electrochemical Impedance Spectroscopy of Polymer Electrolyte Membrane Electrolysis Cells
Publication: Research - peer-review › Journal article – Annual report year: 2018

Non-enzymatic glucose sensing platform using self assembled cobalt oxide/graphene nanocomposites immobilized graphite modified electrode
Vivekananth, R., Babu, R. S., Prasanna, K., Lee, C. W. & Kalaiavani, R. A. 2018 In : Journal of Materials Science: Materials in Electronics. 29, 8, p. 6763-6770
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Nucleation front instability in two-dimensional (2D) nanosheet gadolinium-doped cerium oxide (CGO) formation
Marani, D., Moraes, L. P. R., Gualandris, F., Sanna, S., Zanetti De Florio, D., Esposito, V. & Fonseca, F. C. 2018 In : CrystEngComm. 20, 10, p. 1405-1410
Publication: Research - peer-review › Journal article – Annual report year: 2018

Numerical simulation of kinetic demixing and decomposition in a LaCoO₃₋ᵧ oxygen membrane under an oxygen potential gradient
Publication: Research - peer-review › Journal article – Annual report year: 2018

Operation Strategies Based on Carbon Corrosion and Lifetime Investigations for High Temperature Polymer Electrolyte Membrane Fuel Cell Stacks
Publication: Research - peer-review › Journal article – Annual report year: 2018

Oxidation behavior of a Ni-Fe support in SOFC anode atmosphere
Publication: Research - peer-review › Journal article – Annual report year: 2018

Oxidation of Ethylene Carbonate on Li Metal Oxide Surfaces
Østergaard, T. M., Giordano, L., Castelli, I. E., Maglia, F., Antonopoulos, B. K., Shao-Horn, Y. & Rossmeisl, J. 2018 In : Journal of Physical Chemistry C. 122, 19, p. 10442-10449
Publication: Research - peer-review › Journal article – Annual report year: 2018

Oxide Modules
Publication: Research › Book chapter – Annual report year: 2018

Oxygen Exchange and Transport in (La₀.₆Sr₀.₄)₀.₉₈FeO₃₋ᵧ-Ca₀.₅Gd₀.₅O₁.₉₅ dual-phase composites
Publication: Research - peer-review › Journal article – Annual report year: 2018

Performance and stability of (ZrO₂)₀.₈₈(Y₂O₃)₀.₁₂(Sc₂O₃)₀.₂₀,(LaₐCr₀.₈₅Cu₀.₁₀Ni₀.₀₉O₃₋ᵧ oxygen transport membranes under conditions relevant for oxy-fuel combustion
Plasma and catalyst for the oxidation of NOx
Jõgi, I., Erme, K., Levoll, E., Raud, J. & Stamate, E. 2018 In : Plasma Sources Science and Technology. 27, 3, 14 p., 035001

P-type Al-doped Cr-deficient CrN thin films for thermoelectrics

Quantum heat engines: Limit cycles and exceptional points

Reactivating the Ni-YSZ electrode in solid oxide cells and stacks by infiltration

Re-activation of degraded nickel cermet anodes - Nano-particle formation via reverse current pulses

Reassignment of 'magic numbers' for Au clusters of decahedral and FCC structural motifs

Sample Design and Preparation Techniques for Dynamic Microstructural Studies of High Temperature Electrochemical Cells

Scaling up aqueous processing of A-site deficient strontium titanate for SOFC anode supports

Sintering of MnCo2O4 coatings prepared by electrophoretic deposition
Bobruk, M., Molin, S., Chen, M., Brylewski, T. & Hendriksen, P. V. 2018 In : Materials Letters. 221, p. 101-103

Sliding-wear resistance of pure near fully-dense B4C under lubrication with water, diesel fuel, and paraffin oil

Smart nano-inks for inkjet printing of functional oxide based thin films

Stoichiometric control in Bi4Ti3O12 synthesis by novel hybrid solid state reaction
Gadea, C., Phatharapeetraphuff, N., Ksapabutr, B., Grivel, J-C. & Esposito, V. 2018 In : Materials Letters. 221, p. 101-103
Structural and superconducting characteristics of YBa2Cu3O7 films grown by fluorine-free metal-organic deposition route
Zhao, Y., Chu, J., Gureishy, T., Wu, W., Zhang, Z., MiRheenko, P., Johansen, T. H. & Grivel, J-C. 2018 In : Acta Materialia. 144, p. 844-852
Publication: Research - peer-review › Journal article – Annual report year: 2018

Studies of A-site Deficient (Gd0.6Sr0.4)1–sFe0.8Co0.2O3–δ Cathodes in SOFCs
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Publication: Research - peer-review › Journal article – Annual report year: 2018

Subsolidus phase equilibria of the CuO–SrO–ZnO pseudoternary system in air at 900 °C
Grivel, J-C. 2018 In : Chimica Techno Acta. 5, 1, p. 6-15
Publication: Research - peer-review › Journal article – Annual report year: 2018

57Fe-Mössbauer spectroscopy and electrochemical activities of graphitic layer encapsulated iron electrocatalysts for the oxygen reduction reaction
Publication: Research - peer-review › Journal article – Annual report year: 2018

Synthesis and stability of strongly acidic benzamide derivatives
Publication: Research - peer-review › Journal article – Annual report year: 2018

Synthesis and thermal decomposition study of dysprosium trifluoroacetate
Opata, Y. A. & Grivel, J-C. 2018 In : Journal of Analytical and Applied Pyrolysis. 132, p. 40-46
Publication: Research - peer-review › Journal article – Annual report year: 2018

The Impact of Strong Cathodic Polarization on Ni|YSZ Microelectrodes
Publication: Research - peer-review › Journal article – Annual report year: 2018

Thermochemical stability of zirconia-titanium nitride as mixed ionic-electronic composites
Publication: Research - peer-review › Journal article – Annual report year: 2018

The Role of Pore-Formers on Grain Interior and Grain Boundary Conductivity in Tape-Cast Porous Sheets for Electrochemical Flue Gas Purification
Publication: Research - peer-review › Journal article – Annual report year: 2018

Three dimensional characterization of nickel coarsening in solid oxide cells via ex-situ ptychographic nano-tomography
Publication: Research - peer-review › Journal article – Annual report year: 2018

Three Dimensional Polarimetric Neutron Tomography of Magnetic Fields
Publication: Research - peer-review › Journal article – Annual report year: 2018
Topology optimization of a pseudo 3D thermofluid heat sink model
Publication: Research - peer-review › Journal article – Annual report year: 2018

Towards High Power Density Metal Supported Solid Oxide Fuel Cell for Mobile Applications
Publication: Research - peer-review › Journal article – Annual report year: 2018

Towards solar cells with black silicon texturing passivated by a-Si:H
Iandolo, B., Plakhotnyuk, M., Davidsen, R. S., Stamate, E., Hansen, O. & Nunomura, S. 2018
Publication: Research - peer-review › Paper – Annual report year: 2018

Tuning the thermoelectric properties by manipulating copper in Cu2SnSe3 system
Publication: Research - peer-review › Journal article – Annual report year: 2018

Tuning the Two-Dimensional Electron Gas at Oxide Interfaces with Ti-O Configurations: Evidence from X-ray Photoelectron Spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2018

Two level undercut-profile substrate-based filamentary coated conductors produced using metal organic chemical vapor deposition
Publication: Research - peer-review › Journal article – Annual report year: 2018

Utilizing thermal building mass for storage in district heating systems: Combined building level simulations and system level optimization
Publication: Research - peer-review › Journal article – Annual report year: 2018

Vapor pressure and specific electrical conductivity in the solid and molten H2O-CsH2PO4-CsPO3 system—a novel electrolyte for water electrolysis at ~225–400 °C
Publication: Research - peer-review › Journal article – Annual report year: 2018

Which Storage Types are Needed in Future Smart Energy Cities?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Zirconia UV-curable colloids for additive manufacturing via hybrid inkjet printing-stereolithography
Publication: Research - peer-review › Journal article – Annual report year: 2018

METHOD AND APPARATUS FOR CHARACTERIZATION OF A SOLAR CELL
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Publication: Research › Patent – Annual report year: 2017
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Brodersen, K., Hauch, A., Chen, M. & Hjelm, J. 23 Feb 2017
Publication: Research › Patent – Annual report year: 2017

3D printed barium titanate/poly-(vinylidene fluoride) nano-hybrid with anisotropic dielectric properties
Publication: Research - peer-review › Journal article – Annual report year: 2017

Acid-base chemistry and proton conductivity of CsHSO4, CsH2PO4 and their mixtures with N-heterocycles
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Contribution to the Understanding of the Combined Effect of Nitrogen and Boron in Grey Cast Iron
Publication: Research - peer-review › Journal article – Annual report year: 2017

Addressing uncertainty in atomistic machine learning
Peterson, A. A., Christensen, R. & Khoshidi, A. 2017 In : Physical Chemistry Chemical Physics. 18, p. 10978-10985
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Decade of Solid Oxide Electrolysis Improvements at DTU Energy
Publication: Research - peer-review › Conference article – Annual report year: 2017

A density functional theory study of the carbon-coating effects on lithium iron borate battery electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Durability Study of High-temperature PEMFC. Effects of Operating Parameters and Thermal Curing

Advanced fabrication of porous ceramic multilayers for membrane applications
Publication: Research › Conference abstract in proceedings – Annual report year: 2017

Advanced manufacturing of porous ceramic structures for use in energy applications (invited)
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

A facile approach to fabricate hierarchically structured poly(3-hexylthiophene-2,5-diyl) films
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Fully Developed Flow Thermo fluid Model for Topology Optimization of 3D-Printed Air-Cooled Heat Exchangers
Publication: Research - peer-review › Journal article – Annual report year: 2017

Alkaline membrane water electrolysis with non-noble catalysts
A multi-objective energy planning including system exergy efficiency and socio-economic costs

Analysis of electrical and thermal stress effects on PCBM:P3HT solar cells by photocurrent and impedance spectroscopy modeling

Analysis of Gas Leakage and Current Loss of Solid Oxide Fuel Cells by Screen Printing
Jia, C., Han, M. & Chen, M. 2017 In : ECS Transactions. 78, 1, p. 1533-1540

An effective low Pd-loading catalyst for hydrogen generation from formic acid

A new method to measure mechanics and dynamic assembly of branched actin networks

Anisotropic Proton and Oxygen Ion Conductivity in Epitaxial Ba$_2$In$_2$O$_5$ Thin Films

A Novel SOFC/SOEC Sealing Glass with a Low SiO$_2$ Content and a High Thermal Expansion Coefficient

A Physically-Based Equivalent Circuit Model for the Impedance of a LiFePO$_4$/Graphite 26650 Cylindrical Cell

Application of numerical inverse method in calculation of composition-dependent interdiffusion coefficients in finite diffusion couples
Application of Photocurrent Model on Polymer Solar Cells Under Forward Bias Stress
Publication: Research - peer-review › Journal article – Annual report year: 2017

Aqueous metal–organic solutions for YSZ thin film inkjet deposition
Publication: Research - peer-review › Journal article – Annual report year: 2017

A regenerative elastocaloric device: Experimental results
Publication: Research - peer-review › Journal article – Annual report year: 2017

A simple method for preparing superconducting FeSe pellets without sealing in evacuated silica tubes
Grivel, J-C. 2017 In : Ceramics International. 43, 14, p. 11474-11480
Publication: Research - peer-review › Journal article – Annual report year: 2017

A toolbox to study precious metal nano- catalysts: surfactant free synthesis, characterization and catalytic activity
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Automated angular and translational tomographic alignment and application to phase-contrast imaging
Publication: Research - peer-review › Journal article – Annual report year: 2017

Bismuth phosphates as intermediate temperature proton conductors: From polycrystalline powders to amorphous glasses
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Publication: Research - peer-review › Journal article – Annual report year: 2016

Bottom-Up Design of a Copper-Ruthenium Nanoparticulate Catalyst for Low-Temperature Ammonia Oxidation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Business Model and Replication Study of BIG HIT
Publication: Research › Report – Annual report year: 2017

Carbazole-based copolymers via direct arylation polymerization (DArP) for Suzuki-convergent polymer solar cell performance
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Publication: Research - peer-review › Journal article – Annual report year: 2017

Carbon deposition and sulfur poisoning during CO₂ electrolysis in nickel-based solid oxide cell electrodes
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Publication: Research - peer-review › Journal article – Annual report year: 2017
Cathode-supported hybrid direct carbon fuel cells
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Project

3D electron microscopy of nanostructures in energy devices
Colding-Jørgensen, S., Kuhn, L. T.; Schmidt, S. & Simonsen, S. B.
01/08/2017 → 31/07/2020
Project: PhD

Thermochemical Heat Storage
Karabanova, A., Blanchard, D. & Johnsen, R. E.
01/07/2017 → 30/06/2020
Project: PhD

New Concepts for Efficient Immobilization of Enzymes in Inorganic Membrane Reactors
Lehmann, J., Kaiser, A., Pinelo, M. & Pinelo, M.
01/06/2017 → 31/05/2020
Project: PhD

Nanoscale design of Ammonia Carriers for Air Pollution Control (NANOCONTROL)
Kaiser, A.
01/05/2017 → 30/04/2021
Project

Commercial project SOFC related
Hagen, A.
01/05/2017 → 30/04/2018
Project

Nanocrafts - proof of concept nanotechnology for jewelry industry
Plakhotnyuk, M. & Davidsen, R. S.
01/05/2017 → 30/09/2017
Project

GIANT-E: Microstructural forging of electromechanically active bulk ceria
Kabir, A., Esposito, V. & Van Nong, N.
15/04/2017 → 14/04/2020
Project: PhD

SOFC stack project II
Wulff, A. C.
01/04/2017 → 01/04/2018
Fabrication and electrical properties of advanced thin film materials for resistive switching memories
Li, Y., Pryds, N., Esposito, V., Sanna, S. & Traulsen, M. L.
01/04/2017 → 31/03/2020
Project: PhD

Synthesis and characterization of Tubular Oxygen transport membranes
Martinez Aguilera, L., Kiebach, W., Bjørnetun Haugen, A. & Kaiser, A.
01/04/2017 → 31/03/2020
Project: PhD

Giant-E - Ceria Thin Films Giant Electrostrictors
Santucci, S., Esposito, V., Lubomirsky, I. & Pryds, N.
15/02/2017 → 14/02/2020
Project: PhD

Investigation of metallic-ceramic 3D network-structures for solid oxide fuel cell technology
Wulff, A. C., Lund, R. K. & Zhang, W. (.
01/02/2017 → 23/06/2017
Project

Modelling of ultrafast scattering experiments probing electronic dynamics in solar cells
Khalili, K., Andreasen, J. W. & Santra, R.
15/01/2017 → 14/01/2020
Project: PhD

Implementation in real SOFC Systems of monitoring and diagnostic tools using signal analysis to increase their lifetime
Hagen, A.
02/01/2017 → 31/12/2019
Project

Commercial project SOFC related
Hagen, A.
02/01/2017 → 31/03/2017
Project

Nanofiber structures for efficient enzyme immobilization in membrane applications
Kaiser, A.
01/01/2017 → 31/12/2017
Project

The fabrication and testing of two terminal memristor device - Nano Ionic Conducting Engineered materials for information application
Pryds, N., Esposito, V. & Traulsen, M. L.
01/01/2017 → 31/01/2020
Project

A novel off-grid thermoelectric-photovoltaic desalination system
Van Nong, N.
01/01/2017 → 31/12/2018
Project

Solid Oxide Electrolysis Cell stack II
Wulff, A. C.
01/01/2017 → 31/12/2017
Advanced tailoring of 3D microstructures for superconducting magnets
Wulff, A. C., Inginga, A. R., Grivel, J., Nielsen, P. H., Wichmann, M., Usoskin, A. & Gömöry, F.
01/01/2017 → 01/01/2019

Adhesive development for flexible thin film electronic encapsulation
Kovrov, A., Søndergaard, R. R. & Helgesen, M.
01/01/2017 → 31/12/2019

Density functional theory based modelling of materials for resistive switching memories
Pedersen, C. S., Garcia Lastra, J. M., Pryds, N. & Vegge, T.
01/01/2017 → 31/12/2019

DronEL
01/01/2017 → 31/12/2019

Freeze casting to create micro-channel structures
Christiansen, C. D., Bjørk, R. & Nielsen, K. K.
01/01/2017 → 31/12/2019

Theoretical investigations of the sudden death process in metal-air batteries
Tygesen, A. S., Garcia Lastra, J. M. & Vegge, T.
01/01/2017 → 31/12/2019

Advanced neutron imaging of energy devices in 2D and 3D
Lacatusu, M., Kuhn, L. T., Johnsen, R. E., Schmidt, S. & Strobl, M.
15/12/2016 → 14/12/2019

Improving the interface adherence in solid oxide fuel cell stacks
Ritucci, I., Kiebach, W., Agersted, K. & Frandsen, H. L.
15/12/2016 → 14/12/2019

Solid oxide fuel cells and biogas
Langnickel, H., Hagen, A., Graves, C. R. & Olsen, R.
15/12/2016 → 14/12/2019

Novel Anodes for Solid Oxide Fuel Cells
01/11/2016 → 31/10/2019

Novel Cobalt Free Oxygen Electrodes for Solid Oxide Electrolysis Cells
Tong, X., Chen, M., Hendriksen, P. V. & Ovtar, S.
01/11/2016 → 31/10/2019
Cost and energy effective all-black solar cell panel | Black Si BIPV | Phase 2
Poulsen, P. B., Thorsteinsson, S., Davidsen, R. S., Iandolo, B., Hansen, O., Riedel, N. & Benatto, G. A. D. R.
01/10/2016 → 30/09/2018

Modeling of Large-Scale Electricity Storage Systems based on Pressurized Reversible Solid Oxide Cells
Butera, G., Clausen, L. R., Jensen, S. H. & Campanari, S.
01/10/2016 → 28/02/2017

Fabrication and electrical properties of correlated electron systems at the interfaces of complex oxides
Gan, Y., Chen, Y. & Pryds, N.
01/10/2016 → 30/09/2019

Highly defective oxides – the next generation of electromechanical materials
Esposito, V.
01/09/2016 → 31/08/2019

Modeling of degradation processes in high temperature electrolysis cells
Trini, M., Chen, M., Hauch, A. & Hendriksen, P. V.
01/09/2016 → 31/08/2019

Nano-Editor: Development of nano-materials based printing media for all-ceramic solid oxide fuel cells manufacturing
Rosa, M., Esposito, V. & Zielke, P.
01/09/2016 → 31/08/2019

X-ray phase contrast nano-tomography of 3rd generation solar cells
Fevola, G., Andreasen, J. W., Carbone, G. & Dong, Y.
01/09/2016 → 31/08/2019

Electrodeposition of Metallic 3D Surface-Profiles for Superconductor Tapes
Wulff, A. C., Andersen, S. Z., Jørgensen, P. S., Nielsen, P. H. & Bentien, A.
22/08/2016 → 12/02/2017

Advanced structuring of adsorbents by electrospinning for gas cleaning and storage
Vinkel, N. M., Kaiser, A., Akhtar, F. & Zhang, W. (.
15/08/2016 → 15/09/2017

Co-electrolysis SOEC
Rao, M., Hagen, A. & Jensen, S. H.
15/08/2016 → 14/08/2019

Computational design of catalysts for electroreduction of nitrogen into ammonia
Pan, J., Vegge, T. & Hansen, H. A.
01/08/2016 → 31/07/2019
Density Functional Theory Studies of Water Electrolysis on Ceria
Wu, T., Vegge, T. & Hansen, H. A.
01/08/2016 → 31/07/2019
Project: PhD

Cost-effective and flexible 3D printed SOFC stacks for commercial applications
Esposito, V. & Rosa, M.
01/07/2016 → 31/12/2019
Project

Development and pressure testing of solid oxide electrolyser cells
Gao, Y., Jensen, S. H., Graves, C. R. & Hauch, A.
01/07/2016 → 30/09/2016
Project: PhD

NordForsk topical network on Engineering, processes and real-space imaging
Kuhn, L. T.
01/06/2016 → 31/05/2019
Project

Efficient Co-Electrolyser for Efficient Renewable Energy Storage
Hagen, A.
02/05/2016 → 30/04/2019
Project

Breaking the temperature limits of Solid Oxide Fuel Cells: Towards a new family of ultra-thin portable power sources
Taracón, A. & Esposito, V.
01/04/2016 → 31/03/2021
Project

Active Magnetic regenerator refrigeration with rotary multi-bed technology
Eriksen, D., Engelbrecht, K., Bahl, C., Bjørk, R., Jensen, J. O., Kitanovski, A. & Palm, B.
01/04/2016 → 20/09/2016
Project: PhD

Commercial project SOFC related
Hagen, A.
01/04/2016 → 31/03/2017
Project

Highly structured materials for upgraded biogas and storage
Kaiser, A.
01/03/2016 → 29/02/2020
Project

3D imaging center
01/01/2016 → 01/01/2021
Project

High Temperature Superconducting Bolometer
Wulff, A. C. & Jepsen, P. U.
01/01/2016 → 31/08/2016
Project
SOFC stack project
Wulff, A. C.
01/01/2016 → 31/12/2016
Project

New Thermoelectric Materials
Van Nong, N.
01/01/2016 → …
Project

Thermal Energy Storage - Lab-Scale prototype
Blanchard, D.
01/01/2016 → 01/01/2018
Project

High Efficiency Thermoelectric Module
Van Nong, N.
01/01/2016 → …
Project

Global Networking on Molecular Technology Research funded by JSPS (Japan)
Van Nong, N.
01/01/2016 → 31/12/2020
Project

Development of a new synthesis for highly active fuel cell electrocatalysis
Brandes, B. A., Jensen, J. O., Cleemann, L. N. & Li, Q.
15/12/2015 → 14/12/2018
Project: PhD

Improving the efficiency of heat pump and cooling technologies
Navickaité, K., Engelbrecht, K. & Bahl, C.
15/12/2015 → 14/12/2018
Project: PhD

Development and characterization of emerging battery electrodes and electrolytes
Lefèvr, J., Blanchard, D., Hoster, H. E. & Norby, P.
01/12/2015 → 30/11/2018
Project: PhD

Electrical Properties of Correlated Electron Systems at the Interfaces of Complex Oxides
von Soosten, M., Pryds, N., Chen, Y. & Jespersen, T. S.
01/12/2015 → 30/08/2019
Project: PhD

Improvement of Electrode Materials for High temperature Electrolysis Cells
Tripkovic, D., Hendriksen, P. V., Bilge, Y. & Mogensen, M. B.
01/12/2015 → 30/11/2018
Project: PhD

Next generation rechargeable batteries: Sustainable and earth-abundant materials
Christensen, M. K., Norby, P., Hoster, H. E. & Vegge, T.
01/12/2015 → 30/11/2018
Project: PhD
Improvement of Cell Strength in High Temperature Electrolysis Cells
Khajavi, P., Frandsen, H. L. & Hendriksen, P. V.
01/11/2015 → 31/10/2018
Project: PhD

Durable thin ceramic films for improvement of Proton Exchange Membrane (PEM) electrolysis
Fenini, F., Mogensen, M. B., Kammer Hansen, K. & Hendriksen, P. V.
15/10/2015 → 14/10/2018
Project: PhD

Development of non-precious metal polymer fuel cell catalysts
Shypunov, I., Jensen, J. O., Cleemann, L. N. & Li, Q.
15/09/2015 → 14/12/2018
Project: PhD

Modeling Energy Supply for Future Cities
15/09/2015 → 14/09/2018
Project: PhD

Nano-scale 3D reconstruction of phase contrast X-ray projections
Cunha Ramos, T. J., Andreasen, J. W. & Jørgensen, J. S.
15/09/2015 → 14/09/2018
Project: PhD

ESS & MAX IV: Cross border science and society
Kuhn, L. T.
01/09/2015 → 31/08/2018
Project

SOFC degradation studies
15/08/2015 → 14/08/2018
Project: PhD

Development and characterization of novel high temperature and pressure alkaline electrolysis cells (HTP-AEC)
Adolphsen, J. Q., Sudireddy, B. R., Chatzichristodoulou, C. & Gil, V.
01/08/2015 → 31/08/2018
Project: PhD

Development and characterization of novel high temperature and pressure alkaline electrolysis cells (HTP-AEC)
Adolphsen, J. Q., Sudireddy, B. R., Chatzichristodoulou, C. & Gil, V.
01/08/2015 → 31/08/2018
Project

Multilayer inorganic structures for high performance enzyme immobilization and separation
Ghannadi, S., Della Negra, M., Kaiser, A. & Pinelo, M.
01/08/2015 → 30/11/2015
Project: PhD

Dark Field X-ray Microscopy of energy materials
Sierra Trujillo, J. X., Bowen, J. R., Jørgensen, P. S., Poulsen, H. F., Hagen, A., Sørensen, H. O. & Villanova, J.
15/06/2015 → 14/07/2018
Project: PhD
Durable thin ceramic films for improvement of Proton Exchange Membrane (PEM) electrolysis cells
Hausladen, M., Mogensen, M. B., Hendriksen, P. V. & Ramos, T.
15/06/2015 → 31/07/2015
Project: PhD

Electrochemical Characterization for Improvement of PEM Electrolysers for Flexible Energy Storage
15/06/2015 → 14/06/2018
Project: PhD

High Current All Printed Transistors
Pastorelli, F.
01/05/2015 → ...
Project

New composite materials for high temperature water splitting and synthetic fuel production by solar thermochemical conversion
Esposito, V.
01/05/2015 → 31/03/2018
Project

In-operando spatially resolved probing of solid oxide electrolysis/fuel cells
01/05/2015 → 30/04/2018
Project: PhD

Young investigator Program from Villum Foundation
Mathiesen, N. R., García Lastra, J. M., Vegge, T. & Vegge, T.
01/05/2015 → 07/01/2019
Project: PhD

SOFC Testing Part 1 and 2
Hagen, A. & Sun, X.
13/04/2015 → 31/10/2015
Project

Density Functional Theory Studies of the Oxygen Reduction Reaction on Non-Precious Electrodes
Reda, M. K., Vegge, T., Hansen, H. A., Cleemann, L. N., Groß, A. & Skulason, E.
01/04/2015 → 20/06/2018
Project: PhD

In-operando localized probing of solid oxide electrolysis/fuel cells by controlled atmosphere high temperature scanning probe microscopy
Kreka, K., Hansen, K. V., Chatzichristodoulou, C., Mogensen, M. B., Norrman, K., Hjelm, J., Bieberle-Hütter, A. & Küngas, R.
15/03/2015 → 14/06/2018
Project: PhD

The role of contact resistance in thermoelectric module
15/02/2015 → 01/08/2018
Project: PhD

Demonstration af Danmarks Fremtidige Energisystem i Miniformat
Hagen, A.
Filamentary Coated Conductors
Wulff, A. C.
01/01/2015 → 31/12/2015
Project

Rare-earth/transition-metal oxides and compounds for environment-friendly energy science and technology
Chen, Y.
01/01/2015 → 31/12/2015
Project

Acid-base chemistry and HT-polymer electrolyte membranes
Becker, H., Li, Q., Jensen, J. O., Hjelm, J., Büchi, F. N. & Kallitsis, J.
15/12/2014 → 18/04/2018
Project: PhD

Advanced nano-inks for ink-jet printing of functional metal oxides for energy and environment devices - Smart inks
Gadea, C., Esposito, V., Grivel, J., Tavacoli, J., De Buysser, K. & Sanson, A.
15/12/2014 → 18/04/2018
Project: PhD

ECOnomical and ecological design of urban buildings by integration of organic photovoltaics microgrids (ECLIPS microgrids)
15/12/2014 → 22/05/2018
Project: PhD

Analysis of Fracture in Porous Ceramic Catalysts by use of X-ray Tomography
Jacobsen, H. S., Frandsen, H. L., Molina, A. M. P., Poulsen, H. F. & Sørensen, B. F.
01/12/2014 → 11/07/2018
Project: PhD

Development of High temperature PEM fuel cells
15/11/2014 → 14/11/2017
Project: PhD

Topology optimization of thermal heat sinks
Engelbrecht, K., Haertel, J. H. K., Sigmund, O. & Lazarov, B. S.
01/11/2014 → 31/10/2017
Project

Topology optimization of thermal heat sinks
Haertel, J. H. K., Engelbrecht, K., Lazarov, B. S., Sigmund, O., Frandsen, H. L., Dede, E. M. & Langelaar, M.
01/11/2014 → 18/04/2018
Project: PhD

In situ transmission electron microscopy on operating electrochemical cells
Kuhn, L. T., Simonsen, S. B., Wagner, J. B. & Gualandris, F.
01/10/2014 → 30/09/2017
Project

In-situ transmission electron microscopy on operating electrochemical cells
Gualandris, F., Kuhn, L. T., Simonsen, S. B., Wagner, J. B., Bowen, J. R., Sharma, R. & Wallenberg, R.
01/10/2014 → 24/01/2018
Graded Oxygen Transport Membranes for Carbon Capture Processes
Pirou, S., Kiebach, W., Hendriksen, P. V., Kaiser, A., Agersted, K., Baumann, S. & Kriegel, R.
15/09/2014 → 24/01/2018
Project: PhD

Studies of doping effects on the superconducting properties of DyBa2Cu2O7-d and its possible manufacture as thin film for power applications
01/09/2014 → 18/04/2018
Project: PhD

In-situ 3D microstructure characterisation of solid oxide fuel cells using X-ray tomography methods
15/08/2014 → 13/12/2017
Project: PhD

Robust HT-MEAs for Dynamic Operation under Smart Grid Conditions
Jensen, J. O., Pensini, A. & Træholt, C.
01/08/2014 → 01/08/2017
Project

Alkaline Electrolyser Cell
01/08/2014 → 13/11/2017
Project: PhD

Roll-to-roll X-ray scattering and analysis
Rossander, L. H., Andreasen, J. W. & Trofod, T.
01/08/2014 → 26/01/2019
Project: PhD

Solid oxide fuel cells for the renewable energy transition
Graves, C. R.
01/08/2014 → 31/03/2017
Project

CHEETAH FP7
Beliatis, M.
21/07/2014 → ...
Project

Green Production of Nanomaterials for Energy Conversion
01/07/2014 → 30/09/2017
Project: PhD

Electrochemical Reduction of CO2 to Sustainable Synthetic Fuels
01/06/2014 → 20/09/2017
Project: PhD

Electrospun functionalized nano-materials for ultra-compact de-NOX SCR system in naval shipping
Esposito, V.
Development of Proton Conductive membranes
Kirkebæk, A., Li, Q., Alli, D., Jensen, J. O., Søndergaard, R. R., Hjuler, H. A. & Kerres, J.
01/05/2014 → 09/07/2017
Project: PhD

Lifetime limiting effects in pre-commercial solid cell devices
01/03/2014 → 21/06/2017
Project: PhD

Inks for fast processing of recyclable polymer solar cells
15/01/2014 → 26/04/2017
Project: PhD

Alliance for Imaging and Modelling of Energy Applications
01/01/2014 → 31/12/2018
Project

Noble Metals Free Intermediate -Temperature Supported Liquid Phase Electrolyzer
Nikiforov, A. V., Bjerrum, N. J., Petrushina, I., Christensen, E. & Jensen, J. O.
01/01/2014 → ...
Project

Sustainable Carbon Power
Berg, R. W. & Bjerrum, N. J.
01/01/2014 → 31/08/2018
Project

Center for IT-Intelligent Energy Systems for Cities
01/01/2014 → 31/12/2019
Project

Center for Thermoelectric Energy Conversion
Van Nong, N.
01/01/2014 → 31/12/2018
Project

Elektrode Kinetics and Gas Conversion in Solid Oxide Cells
01/01/2014 → 20/04/2016
Project: PhD

Elektrokatalyse og Katalysatorer til Oxygenreduktion i Polymer Brændselscelle
01/01/2014 → 17/05/2017
Project: PhD
Materials for Energy Production
Heckler, I. M., Bundgaard, E., Andreasen, J. W., Tanenbaum, D. M. & Wang, E.
01/01/2014 → 26/04/2017
Project: PhD

Nano-carbons for versatile power supply modules
Van Nong, N.
01/12/2013 → 30/09/2017
Project

Organic based photovoltaics with morphological control
Zawacka, N. K., Jørgensen, M. & Krebs, F. C.
01/10/2013 → 30/06/2015
Project: PhD

Active Cooling of a Down Hole Well Tractor
01/09/2013 → 16/11/2016
Project: PhD

Computational Design of Electrocatalysts for Sustainable Production of Synthetic Fuels
01/09/2013 → 25/01/2017
Project: PhD

Design and testing of high performance regenerators
Lei, T., Engelbrecht, K., Nielsen, K. K., Nielsen, K. K., Hattel, J. H., Barbosa Jr., J. R. & Furberg, R.
15/08/2013 → 14/12/2016
Project: PhD

High performance Magnetocaloric Materials
Neves Bez, H., Bahl, C., Nielsen, K. K., Smith, A., Bohr, J., Lo Bue, M. & Planes, A.
01/08/2013 → 30/09/2016
Project: PhD

Computational Investigations of transport mechanisms across battery interfaces
Loftager, S., Vegge, T., Garcia-Lastra, J. M., Hjelm, J., Khalifah, P. & Rossmeisl, J.
01/07/2013 → 16/11/2016
Project: PhD

Exploring Electronic Properties in All-oxide Heterostructures
01/07/2013 → 13/11/2017
Project: PhD

Mixed Rare Earth-Fe-B sintered magnets
Xia, M., Bahl, C., Abrahamsen, A. B., Pryds, N., Grivel, J., Christensen, M. & Paturi, P.
15/06/2013 → 06/04/2017
Project: PhD

Cost Effective Regenerative Metal Hydride Air Cell
Blanchard, D.
01/06/2013 → 01/06/2014
Project
Optimised Hybrid Magnets
01/06/2013 → 16/11/2016
Project: PhD

Performance and lifetime limiting effects in Li-ion batteries
01/06/2013 → 20/09/2016
Project: PhD

Mobility and Interfacial Effects under Degradation of Polymer Solar Cells
Corazza, M., Krebs, F. C., Gevorgyan, S., Lauritzen, H., Kettle, J. P. & Maes, W.
15/05/2013 → 16/06/2016
Project: PhD

Materials for Energy Production
Livi, F., Bundgaard, E., Lauritzen, H., Kettle, J. P. & Maes, W.
01/05/2013 → 16/06/2016
Project: PhD

HT PEMFC Durability and Lifetime
Søndergaard, T., Jensen, J. O., Cleemann, L. N., Li, Q., Petrushina, I., Bajo, J. L. & Grahl-Madsen, L.
01/04/2013 → 24/01/2018
Project: PhD

Mobility and Interfacial Effects under Degradation of Polymer Solar Cells
Roth, B., Krebs, F. C., Lauritzen, H., Kettle, J. P. & Maes, W.
01/04/2013 → 16/06/2016
Project: PhD

Quantum and field effects of oxide heterostructures
Trier, F., Pryds, N., Chen, Y., Jespersen, T. S., Thygesen, K. S., Gabay, M. & Granozio, F. M.
01/03/2013 → 30/09/2016
Project: PhD

Powerpipe hybrid solar panel
Furbo, S., Fan, J. & Perers, B.
01/01/2013 → 30/06/2014
Project

SMARTONICS FP7
Beliatis, M.
01/01/2013 → 01/08/2014
Project

AC superconducting wires
Wulff, A. C.
01/01/2013 → 31/12/2013
Project

In-situ Neutron Imaging of Solid Oxide Fuel Cells
01/01/2013 → 20/04/2016
Project: PhD
Investigation of performance and lifetime limiting effects in Li-air battery cells
01/12/2012 → 22/02/2016
Project: PhD

Management of Lithium-air batteries - safety, reliability and performance
Christensen, A. E., Norby, P., Larsen, E., Vestin, K., Jensen, S. H., Monroe, C. W. & Møller, P. J.
01/12/2012 → 20/04/2016
Project: PhD

Shaping our Energy Future with Electrospinning
Zhang, W.
15/10/2012 → 14/10/2014
Project

Oxygen Membranes for Biomass Gasification and Cement Industry
01/09/2012 → 27/01/2016
Project: PhD

Preparation and characterization of cathode materials for lithium-oxygen batteries
15/08/2012 → 20/09/2016
Project: PhD

Towards Smart Grid Ready SOFC
Hjelm, J.
01/08/2012 → 31/07/2014
Project

Computational analysis and design of new materials for lithium-air batteries
Mekonnen, Y. S., Vegge, T., Garcia-Lastra, J. M., Hummelsøj, J. S., Blanchard, D., Rossmeisl, J. & Siegel, D. J.
01/08/2012 → 02/12/2015
Project: PhD

Pressurized HT PEM Cells for H2/O2 operation
01/08/2012 → 30/09/2015
Project: PhD

Anion Conducting Polymer Membranes for Hydrogen Production Through Alkaline Water Electrolysis
Aili, D.
01/07/2012 → 30/06/2014
Project

Miljøvenlige, organiske solceller med kontrolleret nanostruktur, baseret på partikler i vandig dispersion
01/06/2012 → 30/09/2015
Project: PhD

Hybrid metal-graphene nanostructured materials for innovative plasmonic electrodes
Beliatis, M.
01/03/2012 → 01/03/2014
Project
Direct conversion of carbon to electricity in a hybrid solid oxide fuel cell
Deleebeeck, L., Kammer Hansen, K., Mogensen, M. B., Hagen, A., Lagergren, C. & Skou, E. M.
01/03/2012 → 03/06/2015
Project: PhD

Electrolyte and electrocatalysts combinations suitable for CO2 reduction and O2 evolution
01/03/2012 → 02/09/2015
Project: PhD

Fabrication of Green Hydrocarbon Fuels via Capture and Electrolysis of CO2
01/03/2012 → 13/05/2015
Project: PhD

Design and Optimization of Effective Segmented Thermoelectric Generator for Waste Heat Recovery
Pham, H. N., Pryds, N., Linderoth, S., Nong, N. V., Ramousse, S., Eklund, P. & Roch, A.
01/02/2012 → 02/12/2015
Project: PhD

A Novel Thermoelectric Power Generator
Van Nong, N.
01/01/2012 → 31/05/2012
Project

Development of novel electrode-catalyst materials for Li-air battery cathodes
01/01/2012 → 01/07/2015
Project: PhD

High-efficiency, low-cost electrode surfaces for next generation alkaline electrolysis
14/12/2011 → 12/12/2014
Project

Hydrogen from RES: pressurised alkaline electrolyser with high efficiency
Bowen, J. R., Jørgensen, P. S. & Bentzen, J. J.
01/11/2011 → 30/04/2015
Project

Solar Hydrogen Fuel Production Station
Beliats, M.
31/10/2011 → 01/09/2012
Project

Kinetic studies and Computational Fluid Dynamics (CFD) simulations to aid in the development og Tantalun coated extreme corrosion resistance welded plate heat exchangers (ECWP)
01/10/2011 → 17/12/2014
Project: PhD

Modelling environmentally friendly materials for magnetic refrigeration
von Moos, L., Bahl, C., Engelbrecht, K., Nielsen, K. K., Abrahamsen, A. B., Burriel, R. & Cohen, L.
01/10/2011 → 17/12/2014
Project: PhD
Computational Design of New Materials for Ammonia Storage
Jensen, P. B., Vegge, T., Quaade, U., Rossmeisl, J., Bligaard, T. & Hammer, B.
15/09/2011 → 17/12/2014
Project: PhD

Fremstilling og karakterisering af elektrolytter og elektroder til vandelektrolyse i temperaturområdet 200-400°C
15/09/2011 → 11/03/2015
Project: PhD

Fremstilling og karakterisering af materiale og komponenter til mellemliggende emperatur brændselsceller og vandelektrolyse
15/08/2011 → 26/11/2014
Project: PhD

Development and processing of p-type oxide thermoelectric materials
01/08/2011 → 26/11/2014
Project: PhD

Modeling of shape instabilities occurring during sintering
Tadesse Molla, T., Frandsen, H. L., Bjørk, R., Pryds, N., Hattel, J. H., Bordia, R. K. & Raether, F.
15/07/2011 → 30/09/2014
Project: PhD

Development and processing of n-type oxide thermoelectric materials
Han, L., Linderoth, S., Nong, N. V., Pryds, N., Kaiser, A., Palmqvist, A. & Weidenkaff, A.
01/07/2011 → 30/09/2014
Project: PhD

Development of functionally graded thermoelectric materials based on optimal average figure-of-merit
Le, T. H., Pryds, N., Kuhn, L. T., Gelbstein, Y. & Rosendahl, L.
01/06/2011 → 26/11/2014
Project: PhD

Experimental tape casting of multilayer for flue gas purification
Schmidt, C. G., Kaiser, A., Andersen, K. B., Kammer Hansen, K., Chatzichristodoulou, C., Graule, T. J. & Görsmann, C. F.
15/05/2011 → 30/09/2015
Project: PhD

Experimental Extrusion of Tubular Multilayer Materials for Oxygen Membranes
01/05/2011 → 17/12/2014
Project: PhD

Inorganic Proton Conducting Materials
15/04/2011 → 24/09/2014
Project: PhD

Experimental Tape Casting of Adjacently Graded Materials for Magnetic Refrigeration
01/04/2011 → 26/11/2014
Project: PhD
SOFC Stack Diagnostics
01/04/2011 → 04/02/2015
Project: PhD

Adiabatic Liquid Piston Compressed Air Energy Storage
Bang-Møller, C., Reinholdt, L., Elmegaard, B., Pedersen, A. S., Pedersen, A. H. & Crotogino, F.
01/03/2011 → …
Project

Medium Temperature Water Electrolysis
01/03/2011 → 28/02/2015
Project

Udvikling og karakterisering af avancerede Li-batterier
01/03/2011 → 02/09/2015
Project: PhD

In situ characterisation of structure and transport in battery electrolytes and electrodes
01/01/2011 → 26/02/2014
Project: PhD

Polymer photovoltaics - Largecells - R2R-produced polymer solar cells
Hösel, M., Krebs, F. C., Andreasen, J. W., Laursen, B. W. & Lianos, P.
01/01/2011 → 26/02/2014
Project: PhD

Investigation of the degradation of solid oxide cells applied for electrolysis
Tao, Y., Mogensen, M. B., Ebbesen, S. D., Nielsen, J., Brisse, A. & Irvine, J. T. S.
15/12/2010 → 26/02/2014
Project: PhD

Use of Biomass derived fuels for SOFC’s effect of fuel impurities
Johnson, G., Hagen, A. & Hjalmarsson, P.
15/12/2010 → 15/04/2016
Project: PhD

OXIDE THERMOELECTRICS FOR EFFECTIVE POWER GENERATION FROM WASTE HEAT
Van Nong, N.
01/12/2010 → …
Project

Risk-benefit analyser af funktionelle fødevarer – Fokus på D-vitamin
Burild, A., Jakobsen, J., Poulsen, M. & Frandsen, H. L.
01/12/2010 → 30/11/2014
Project

Degradation of nanoparticle composite solar cells comprising both organic and inorganic materials
01/10/2010 → 13/05/2015
Project: PhD
Nano-Structures of Organic-based photovoltaic Cells
01/10/2010 → 18/12/2013
Project: PhD

Organic-based photovoltaic cells with morphology control
Andersen, T. R., Bundgaard, E., Jørgensen, M., Kuhn, L. T., Brabec, C. J. & Lira-Cantu, M.
01/10/2010 → 11/12/2013
Project: PhD

Roll-to-roll adaptation of high efficiency organic-based photovoltaic cells
Trofod, T., Krebs, F. C., Holtappels, P., Moons, E. & Thompson, B. C.
01/10/2010 → 24/09/2014
Project: PhD

Large-area Organic and Hybrid Solar Cells
Krebs, F. C. & Søndergaard, R. R.
01/09/2010 → 31/08/2014
Project

Nye typer af elektrokatalysatorer til elektrolyse- og brændselsceller
01/09/2010 → 03/02/2014
Project: PhD

Theoretical investigations of novel materials for nitrogen fixation
01/09/2010 → 11/12/2013
Project: PhD

Upscaling of Highly Flexible Polymer Solar Cells
Angmo, D., Krebs, F. C., Holtappels, P., Moons, E. & Thompson, B. C.
01/09/2010 → 26/02/2014
Project: PhD

Danish-Chinese Center for Organic based Photovoltaic Cells with Morphology Control
31/08/2010 → 31/08/2016
Project

Højtemperatur PEM Brandselsceller og organiske brændsler
01/08/2010 → 30/09/2014
Project: PhD

Indium-tin-oxide free roll-to-roll processed polymer solar cells
Dam, H. F., Krebs, F. C., Brabec, C. J., Kuhn, L. T. & Yu, D.
01/08/2010 → 11/12/2013
Project: PhD

Large Area Roll-to-roll processed photocatalytic films for solar energy conversion and storage
Jensen, J., Krebs, F. C., Andreasen, J. W., Laursen, B. W. & Lianos, P.
01/08/2010 → 26/02/2014
Project: PhD
Development and application of a green Chemistry solution deposition technique for buffer layer coating on cue-textured metal substrates in view of further deposition of rare-earth based superconductors
Pallewatta, P. G. A. P., Grivel, J., Kaiser, A., Rubesova, K. & Steenberg, T.
01/07/2010 → 26/02/2014
Project: PhD

Development of a fluorine-free chemical solution deposition route for rare-earth cuprate superconducting tapes and its application to reel-to-reel
Tang, X., Grivel, J., Agersted, K., Augieri, A. & Driessche, I. J. M. V.
01/07/2010 → 30/09/2013
Project: PhD

Durable and Robust SOFC
Hjelm, J.
01/07/2010 → 31/07/2012
Project

Electrolytes for electrochemical N2 fixation cells
Lapina, A., Holtappels, P., Mogensen, M. B., Vegge, T., Haart, L. G. J. D. & Irvine, J. T. S.
15/05/2010 → 30/09/2013
Project: PhD

Low Temperature oxidation of hydrocarbons using an electrochemical reactor
Ippolito, D., Kammer Hansen, K., Christensen, H., Bonanos, N., Marello, G. E. & Skou, E. M.
01/05/2010 → 19/08/2013
Project: PhD

Degradation mechanism of the LSCF Cathode
Zhang, W., Chen, M., Barfod, R. G., Hendriksen, P. V., Hjelm, J., Hallstedt, B. & Markus, T.
15/04/2010 → 19/03/2013
Project: PhD

Development of improved electrodes in high temperature PEM fuel cells
15/03/2010 → 11/12/2013
Project: PhD

BioSOFC - 3rd Generation Biomass Based Combined Heat and Power (CHP)
01/03/2010 → 01/03/2013
Project

Low Temperature NOx decomposition using an electrochemical Reactor
Shao, J., Kammer Hansen, K., Hjelm, J., Kustov, A. & Vernoux, P.
01/03/2010 → 19/08/2013
Project: PhD

Test and Approval Center for Fuel Cell and Hydrogen Technologies: Phase I. Initiation
Hagen, A.
01/01/2010 → 30/06/2012
Project

Electrolytes for Synthesis of CO2-neutral Fuels
01/01/2010 → 19/08/2013
Project: PhD
Electrochemical Removal of NOx and Hydrocarbons
Friedberg, A. Z., Kammer Hansen, K., Jensen, S. H., Rasmussen, S. B. & Tsiplakides, D. T.
01/12/2009 → 17/12/2014
Project: PhD

Synthesis of new polymer materials for high efficiency photovoltaic cells
Carlé, J. E., Jørgensen, M., Krebs, F. C., Sommer-Larsen, P., Christensen, J. B. & R. Andersson, M.
01/10/2009 → 24/06/2013
Project: PhD

Computational analysis of the interaction of water with materials for energy storage
Lysgaard, S., Vegge, T., Bligaard, T., Rossmeisl, J., Hellman, A. & Jónsson, H.
15/09/2009 → 19/03/2013
Project: PhD

Computational screening of new carbon-neutral energy materials
15/09/2009 → 19/03/2013
Project: PhD

Development of long cube textured metal substrates suitable for reel-to-reel processing and applications under both ac and dc conditions
Wulff, A. C., Grivel, J., Andersen, N. H., Mishin, O., Juul Jensen, D., Glowacki, B. A. & Holzapfel, B.
01/09/2009 → 28/01/2013
Project: PhD

Nanostructured Ceramic Oxygen Sensors
01/09/2009 → 17/12/2012
Project: PhD

New Electrolytes for CO2 Electrolysis Cells
01/09/2009 → 19/03/2013
Project: PhD

Lengthening the Lifetime of R2R-produced Polymer Solar Cells
01/08/2009 → 24/06/2013
Project: PhD

High Performance polymer solar cells through rational characterization and design
01/07/2009 → 19/10/2012
Project: PhD

High Temperature Alkaline Electrolyser Cell
15/05/2009 → 01/03/2013
Project: PhD

Electrochemical Reduction of NOx
Traulsen, M. L., Kammer Hansen, K., Holtappels, P., Rasmussen, S. B. & Skou, E. M.
01/05/2009 → 27/06/2012
Project: PhD
A high performance ion transport membrane (HP-ITM)
Kaiser, A.
01/04/2009 → 30/06/2010
Project

Development of 3D EBSD for characterisation of solid oxide electrolysis cells in relation to performance and degradation
Saowadee, N., Bowen, J. R., Agersted, K., Lauridsen, E. M., Gholinia, A. & Ringgaard, E.
01/04/2009 → 30/09/2015
Project: PhD

Fremstilling og synteseanvendelse af elektrolytisk fremstillet hydrogen
01/03/2009 → 23/05/2012
Project: PhD

Cathodes for solid Oxide Fuel Cells Operating at 400 C
15/02/2009 → 23/09/2012
Project: PhD

Anodes for SOFCs Operating at 400 degrees
Abdul Jabbar, M. H., Bonanos, N., Høgh, J. V. T., Skaarup, S., Boukamp, B. A. & Skou, E. M.
15/12/2008 → 18/04/2012
Project: PhD

Computational methods for describing reaction rates at interfaces of energy materials
Maronsson, J. B., Vegge, T., Jonsson, H., Rossmeisl, J., Henkelman, G. & Wahnström, G.
01/12/2008 → 18/04/2012
Project: PhD

3D Studies of Coarsening Kinetics of Individual Grains
01/09/2008 → 29/03/2012
Project: PhD

Investigating the Stability of Electrode-electrolyte-interfaces
01/02/2008 → 08/02/2012
Project: PhD

Innovative solid oxide electrolyser stacks for efficient and reliable hydrogen production
Bowen, J. R., Ebbesen, S. D. & Ehora, G.
01/01/2008 → 31/12/2011
Project

Polymer Solar Cells for Solar Energy Conversion
Krebs, F. C.
01/01/2008 → 31/12/2013
Project

Automatic Quantitative Image Analysis of 3D Micrographs
01/03/2007 → 22/09/2010
Project: PhD
Development of software for the analysis of positron lifetime spectra
Eldrup, M. M., Kirkegaard, P. & Olsen, J. V.
01/01/2007 → ...
Project

Resistance of Ni-Cermet anode supports against reduction-oxidation cycling: a step towards better durability of solid oxide fuel cells
Kaiser, A.
01/05/2006 → 30/04/2010
Project

Activities:

Cerâmica (Journal)
Esposito, V. (Editor)
2018
Activity: Research › Journal editor

Van Nong, N. (Organizer)
19 Aug 2018 → 24 Aug 2018
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Journal of Electronic Materials (Journal)
Van Nong, N. (Editor)
Jul 2018 → Dec 2018
Activity: Communication › Series editor

Improving Co-free oxygen electrodes for solid oxide cells through surface modification
Tripkovic, D. (Guest lecturer), Jiayue Wang (Other), Roland Bliem (Other), Bilge Yildiz (Guest lecturer), Mogensen, M. B. (Guest lecturer), Hendriksen, P. V. (Guest lecturer)
9 Jul 2018 → 12 Jul 2018
Activity: Talks and presentations › Conference presentations

CuMn foam as air side contact layer – interface adhesion and area specific resistance after aging
Talic, B. (Other), Han, L. (Other), Zielke, P. (Other), Wulff, A. C. (Other), Hendriksen, P. V. (Other), Frandsen, H. L. (Other)
3 Jul 2018 → 6 Jul 2018
Activity: Talks and presentations › Conference presentations

Galvanostatic and potentiostatic operation of real landfill gas fueled SOFCs
Langnickel, H. (Guest lecturer), Graves, C. R. (Guest lecturer), Hagen, A. (Guest lecturer)
3 Jul 2018 → 6 Jul 2018
Activity: Talks and presentations › Conference presentations

Thermal building mass for storage and its role in smart energy systems
Dominkovic, D. F. (Speaker)
1 Jul 2018
Activity: Talks and presentations › Conference presentations

SCANDEM 2018 - The 69th Annual Conference of the Nordic Microscopy Society
Bowen, J. R. (Organizer)
25 Jun 2018 → 28 Jun 2018
Activity: Attending an event › Participating in or organising a conference
Sample Design and Preparation Techniques for Dynamic Microstructural Studies of High Temperature Electrochemical Cells
Bowen, J. R. (Speaker)
11 Jun 2018
Activity: Talks and presentations › Conference presentations

Time-resolved X-ray Absorption Spectroscopy of Copper Zinc Tin Sulfide Nanoparticles
Rein, C. (Guest lecturer)
6 Jun 2018
Activity: Talks and presentations › Conference presentations

High performance thermoelectric materials and modules for energy harvesting
Van Nong, N. (Guest lecturer)
26 Apr 2018
Activity: Talks and presentations › Conference presentations

PhD thesis "Stability and properties of materials and interfaces for oxide thermoelectrics"
Van Nong, N. (External examiner)
25 Apr 2018
Activity: Examinations and supervision › External examination

Atomistic studies of anode and cathode materials for zinc-air batteries
Lysgaard, S. (Guest lecturer)
11 Apr 2018
Activity: Talks and presentations › Conference presentations

Magnetic Refrigeration for Near Room-Temperature applications
Engelbrecht, K. (External examiner)
9 Apr 2018
Activity: Examinations and supervision › External examination

2018 MIT energy conference
Dominkovic, D. F. (Participant)
2 Mar 2018 → 3 Mar 2018
Activity: Attending an event › Participating in or organising a conference

Sustainable synthetic fuels from biomass gasification and electrolysis
Tripkovic, D. (Guest lecturer)
2 Mar 2018 → 3 Mar 2018
Activity: Talks and presentations › Conference presentations

Which storage types are needed in future smart energy cities?
Dominkovic, D. F. (Speaker)
29 Jan 2018
Activity: Talks and presentations › Conference presentations

Correlating Oxygen Electrode Degradation to Cr Vaporization from Metallic Interconnects in Solid Oxide Cell Stacks
Talic, B. (Speaker), Hendriksen, P. V. (Other)
25 Jan 2018
Activity: Talks and presentations › Conference presentations

Microstructural and electrical characterization of Cu and Fe-doped Mn-Co spinel protective coatings for solid oxide cell interconnects
Federico Smeacetto (Speaker), Antonio G. Sabato (Other), Hassan Javed (Other), Talic, B. (Other), Molin, S. (Other)
24 Jan 2018
Activity: Talks and presentations › Conference presentations

**National Renewable Energy Laboratory**
Dominkovic, D. F. (Visiting researcher)
4 Jan 2018 → 22 Apr 2018
Activity: Visiting an external institution › Visiting another research institution

**Journal of Power Sources (Journal)**
Hagen, A. (Reviewer)
2017
Activity: Research › Peer review of manuscripts

**Wissenschaftsfonds FWF (Fonds zur Förderung der wissenschaftlichen Forschung) Österreichs (External organisation)**
Hagen, A. (Chairman)
2017
Activity: Membership › Membership in review committee

**Operation of real landfill gas fueled solid oxide fuel cell (SOFC) using internal dry reforming**
Langnickel, H. (Guest lecturer), Hagen, A. (Guest lecturer)
12 Dec 2017 → 15 Dec 2017
Activity: Talks and presentations › Conference presentations

**Reversible Operation using Carbonaceous Gasses of a 30-cell Solid Oxide Cell Stack**
Jensen, S. H. (Guest lecturer), Langnickel, H. (Guest lecturer), Nils Hintzen (Other), Chen, M. (Guest lecturer), Sun, X. (Guest lecturer), Hauch, A. (Guest lecturer), Butera, G. (Guest lecturer), Clausen, L. R. (Guest lecturer)
12 Dec 2017 → 15 Dec 2017
Activity: Talks and presentations › Conference presentations

**Towards solid oxide electrolysis plants in 2020**
Chen, M. (Other)
28 Nov 2017
Activity: Talks and presentations › Conference presentations

**In-operando observation of microstructural evolution in a solid oxide cell electrolyte operating at high polarisation**
Sierra Trujillo, J. X. (Speaker)
17 Nov 2017
Activity: Talks and presentations › Conference presentations

**Wilson K. S. Chiu**
Bowen, J. R. (Host)
14 Nov 2017
Activity: Hosting a guest lecturer

**Gerardina Carbone**
Bowen, J. R. (Host)
13 Nov 2017
Activity: Hosting a guest lecturer

**Development of Oxygen Electrodes for High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)**
Adolphsen, J. Q. (Guest lecturer)
3 Nov 2017
Activity: Talks and presentations › Conference presentations

**Perspectives in alkaline water electrolysis using membranes**
Kraglund, M. R. (Speaker)
3 Nov 2017
Development of Oxygen Electrodes for High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)
Adolphsen, J. Q. (Speaker), Sudireddy, B. R. (Guest lecturer), Gil, V. (Guest lecturer), Chatzichristodoulou, C. (Guest lecturer)
2 Nov 2017 → 3 Nov 2017
Activity: Talks and presentations › Conference presentations

Keramiske membraner tililtblæst forgasning
Bjørnetun Haugen, A. (Invited speaker)
1 Nov 2017
Activity: Talks and presentations › Conference presentations

Advanced Concepts in Photovoltaics
Poulsen, P. B. (Organizer), Benatto, G. A. D. R. (Organizer), Schou, J. (Organizer)
10 Oct 2017 → 13 Oct 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Progress in Photovoltaic Research in Denmark 2017
Poulsen, P. B. (Organizer), Benatto, G. A. D. R. (Organizer)
9 Oct 2017
Activity: Attending an event › Participating in or organising a conference

12th International SDEWES Conference
Dominkovic, D. F. (Speaker)
6 Oct 2017
Activity: Talks and presentations › Conference presentations

Advanced fabrication of porous ceramic multilayers for membrane applications
Kaiser, A. (Keynote speaker), Zhang, W. (Invited speaker), Pinelo, M. (Invited speaker), Della Negra, M. (Other)
2 Oct 2017
Activity: Talks and presentations › Conference presentations

Capillary-Based Micro-Battery Cells for Operando X-Ray Diffraction Studies of Electrode Materials in Working Li-Ion Batteries
Johnsen, R. E. (Speaker)
1 Oct 2017 → 5 Oct 2017
Activity: Talks and presentations › Conference presentations

In situ TEM study of the coarsening of carbon black supported Pt nanoparticles in hydrogen
Simonsen, S. B. (Speaker)
1 Oct 2017 → 5 Oct 2017
Activity: Talks and presentations › Conference presentations

The Atomic Simulation Environment and genetic algorithms
Lysgaard, S. (Guest lecturer)
28 Sep 2017
Activity: Talks and presentations › Conference presentations

NOMAD Summer
Loftager, S. (Participant)
25 Sep 2017 → 29 Sep 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Fuel Cells (Journal)
Hagen, A. (Reviewer)
Aug 2017
Activity: Communication › Journal editor

**SOFC/battery powered electrical vehicle**
Hagen, A. (External examiner)
Aug 2017 → Dec 2017
Activity: Examinations and supervision › Supervisor activities

**Anode Catalyst Layer Contributing to the Overall Impedance of Polymer Electrolyte Membrane Electrolysis Cells during Water Electrolysis - A Hypothesis**
Elsøe, K. (Guest lecturer)
30 Aug 2017
Activity: Talks and presentations › Conference presentations

**The 15th International Conference on Advanced Materials IUMRS-ICAM**
Van Nong, N. (Organizer)
27 Aug 2017 → 1 Sep 2017
Activity: Attending an event › Participating in or organising a conference

**NOVEL MATERIALS FOR MORE ROBUST SOLID OXIDE FUEL CELLS IN SMALL SCALE APPLICATIONS**
Holtappels, P. (Invited speaker)
21 Aug 2017
Activity: Talks and presentations › Conference presentations

**Blockchain Summer School 2017**
Dominkovic, D. F. (Participant)
14 Aug 2017 → 18 Aug 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Progress of SOFC/SOEC Development at DTU Energy: From Materials to Systems**
Hagen, A. (Guest lecturer), Hendriksen, P. V. (Other)
Jul 2017
Activity: Talks and presentations › Conference presentations

**Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode**
Chen, M. (Other)
23 Jul 2017 → 28 Jul 2017
Activity: Talks and presentations › Conference presentations

**Materials Optimization Using Advanced Computational Methods**
Hansen, H. A. (Invited speaker)
17 Jul 2017
Activity: Talks and presentations › Conference presentations

**Borohydride for Batteries**
Blanchard, D. (Panel member)
16 Jul 2017 → 21 Jul 2017
Activity: Talks and presentations › Conference presentations

**Climate-KIC PhD Summer School Urban Transition Amsterdam-Bologna 2017**
Dominkovic, D. F. (Participant)
16 Jul 2017 → 30 Jul 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Development of Porous LaNi0.6Fe0.4O3 Electrodes with Tailored Microstructure for High Temperature and Pressure Alkaline Electrolysis Cells**
Adolphsen, J. Q. (Guest lecturer)
12 Jul 2017
Activity: Talks and presentations › Conference presentations

**Advanced manufacturing of porous ceramic structures for use in energy applications**
Kaiser, A. (Invited speaker)
10 Jul 2017
Activity: Talks and presentations › Conference presentations

**Development of Porous LaNi0.6Fe0.4O3 Electrodes with tailored microstructure for High Temperature and Pressure Alkaline Electrolysis Cells**
Adolphsen, J. Q. (Speaker), Sudireddy, B. R. (Other), Gil, V. (Other), Chatzichristodoulou, C. (Other), Lennart Bergström (Other)
9 Jul 2017 → 13 Jul 2017
Activity: Talks and presentations › Conference presentations

**30th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems**
Dominkovic, D. F. (Speaker)
5 Jul 2017
Activity: Talks and presentations › Conference presentations

**3D Microstructural Evolution of a Solid Oxide Cell during a Redox Cycle by High Resolution Ptychographic Tomography**
De Angelis, S. (Guest lecturer)
28 Jun 2017
Activity: Talks and presentations › Conference presentations

**Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-% -efficiency**
Schou, J. (Guest lecturer), Cazzaniga, A. C. (Other), Canulescu, S. (Other), Crovetto, A. (Other), Ettlinger, R. B. (Other), Pryds, N. (Guest lecturer), Hansen, O. (Other), Chang Yan (Other), Kaiwen Sun (Other), Xiaojing Hao (Other)
26 Jun 2017 → 30 Jun 2017
Activity: Talks and presentations › Conference presentations

**Multiphase oxygen electrodes for solid oxide electrolysis cells**
Tripkovic, D. (Speaker), Hendriksen, P. V. (Other), Mogensen, M. B. (Other)
22 Jun 2017
Activity: Talks and presentations › Conference presentations

**The 40th International IAEE Conference**
Dominkovic, D. F. (Speaker)
21 Jun 2017
Activity: Talks and presentations › Conference presentations

**21st International Conference on Solid State Ionics**
Esposito, V. (Organizer)
18 Jun 2017 → 23 Jun 2017
Activity: Attending an event › Participating in or organising a conference

**21st INTERNATIONAL CONFERENCE ON SOLID STATE IONICS**
Blanchard, D. (Guest lecturer)
18 Jun 2017 → 23 Jun 2017
Activity: Talks and presentations › Conference presentations

**High ionic conductivity in confined heterostructures**
Sanna, S. (Speaker)
18 Jun 2017 → 23 Jun 2017
Activity: Talks and presentations › Conference presentations
Demonstration of Impedance Spectroscopy as a Method to Evaluate Losses of Polymer Electrolyte Membrane Electrolysis Cells during Water Electrolysis
Elsøe, K. (Guest lecturer)
14 Jun 2017
Activity: Talks and presentations › Conference presentations

Solid Odda Electrolysis for Grid Balancing: Recent Achievements and Future Challenges
Chen, M. (Speaker)
13 Jun 2017 → 15 Jun 2017
Activity: Talks and presentations › Conference presentations

Alkaline membrane electrolysis with PEM-level electrochemical performance
Kraglund, M. R. (Guest lecturer)
12 Jun 2017
Activity: Talks and presentations › Conference presentations

Development of novel High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)
Adolphsen, J. Q. (Guest lecturer)
12 Jun 2017 → 15 Jun 2017
Activity: Talks and presentations › Conference presentations

Development of novel High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)
Adolphsen, J. Q. (Speaker), Gil, V. (Other), Sudireddy, B. R. (Other), Chatzichristodoulou, C. (Other)
12 Jun 2017 → 15 Jun 2017
Activity: Talks and presentations › Conference presentations

Tutorial on high-throughput computations
Loftager, S. (Participant)
29 May 2017 → 31 May 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

EMRS Spring meeting 2017
Schou, J. (Participant), Cazzaniga, A. C. (Participant), Canulescu, S. (Organizer), Ettlinger, R. B. (Participant), Pryds, N. (Participant), Hansen, O. (Organizer), Crovetto, A. (Organizer), Chang Yan (Participant), Kaiwen Sun (Participant), Xiaojing Hao (Participant)
23 May 2017
Activity: Attending an event › Participating in or organising a conference

Operando X-ray diffraction studies of high-capacity electrode materials using capillary based micro-battery cells
Johnsen, R. E. (Invited speaker)
22 May 2017 → 26 May 2017
Activity: Talks and presentations › Conference presentations

Topics in Mining, Metallurgy and Materials Engineering (Journal)
Esposito, V. (Editor)
18 May 2017
Activity: Research › Journal editor

High ionic conductivity in confined heterostructures
Sanna, S. (Guest lecturer)
27 Apr 2017
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Solid-state lithium sulfur batteries using nanoconfined complex hydrides as solid electrolytes
Blanchard, D. (Other)
26 Apr 2017 → 27 Apr 2017
Activity: Talks and presentations › Conference presentations

Materials Research Society Spring Meeting 2017
Schou, J. (Organizer), Cazzaniga, A. C. (Participant), Crovetti, A. (Participant), Ettlinger, R. B. (Participant), Engberg, S. L. J. (Participant), Canulescu, S. (Participant), Pryds, N. (Participant), Hansen, O. (Participant), Chang Yan (Participant), Kaiwen Sun (Participant), Xiaoqing Hao (Participant)
17 Apr 2017 → 21 Apr 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Phosphoric Acid Anion Migration through Polybenzimidazole Membrane
Becker, H. (Speaker)
9 Apr 2017
Activity: Talks and presentations › Conference presentations

Udfordringer ved VE-gas anvendt i brændselsceller
Hagen, A. (Guest lecturer)
22 Mar 2017
Activity: Talks and presentations › Conference presentations

Workshop for electromechanical and dielectric materials and devices
Bjørnetun Haugen, A. (Organizer), Simons, H. (Organizer)
9 Mar 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

DFT Studies of the ORR Activity of Carbon Encapsulated Fe3C
Hansen, H. A. (Other)
1 Mar 2017
Activity: Talks and presentations › Conference presentations

MODELING OF LI-ION BATTERY PACKS AS BASIS FOR DESIGN OF BATTERY THERMAL MANAGEMENT SYSTEMS
Engelbrecht, K. (External examiner)
6 Feb 2017
Activity: Examinations and supervision › External examination

41st International Conference and Expo on Advanced Ceramics and Composites
Esposito, V. (Organizer)
22 Jan 2017 → 27 Jan 2017
Activity: Attending an event › Participating in or organising a conference

Ceramic processing of tubular, multilayered oxygen transport membranes (Invited)
Bjørnetun Haugen, A. (Invited speaker)
22 Jan 2017 → 27 Jan 2017
Activity: Talks and presentations › Conference presentations

Thermo-mechanical properties of Metal-supported Solid Oxide Fuel Cells components
Teocci, F. (Speaker)
22 Jan 2017 → 27 Jan 2017
Activity: Talks and presentations › Conference presentations

Properties of multicrystalline silicon wafers and case study of PV module viability analysis
Bowen, J. R. (Supervisor), Marisa Di Sabatino Lundberg (Main supervisor)
20 Jan 2017 → 16 Jun 2017
Activity: Examinations and supervision › External examination
Aili, D. (Speaker)
2016
Activity: Talks and presentations › Conference presentations

ChemSusChem (Journal)
Hagen, A. (Reviewer)
2016
Activity: Research › Peer review of manuscripts

Direct use of biogas in SOFC
Hagen, A. (Other)
2016
Activity: Other

ELSEVIER (Publisher)
Esposito, V. (Editor)
2016
Activity: Research › Series editor

Journal of Industrial and Engineering Chemistry (Journal)
Hagen, A. (Reviewer)
2016
Activity: Research › Peer review of manuscripts

Journal of Power Sources (Journal)
Hagen, A. (Reviewer)
2016
Activity: Research › Peer review of manuscripts

Kopernikus PsX (External organisation)
Hagen, A. (Chairman)
2016 → 2026
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

PhD Thesis Kristian B. Knudsen: Censor
Hagen, A. (Internal examiner)
2016
Activity: Examinations and supervision › Internal examination

Polish Science Foundation (External organisation)
Hagen, A. (Chairman)
2016
Activity: Membership › Membership in review committee

Solid State Protonic Conductors 18
Aili, D. (Participant)
2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Ternary polybenzimidazole-based alkaline electrolytes
Aili, D. (Invited speaker)
2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
Wissenschaftsfonds FWF (Fonds zur Förderung der wissenschaftlichen Forschung) Österreichs (External organisation)
Hagen, A. (Chairman)
2016
Activity: Membership › Membership in review committee

Integrated computational and experimental design of next-generation battery materials
Vegge, T. (Invited speaker)
9 Dec 2016
Activity: Talks and presentations › Conference presentations

Batterier: Status quo og i fremtiden - Fundamentale aspekter og perspektiver
Vegge, T. (Invited speaker)
5 Dec 2016
Activity: Talks and presentations › Conference presentations

Intermediate Temperature Proton Conductors – Why and How
Li, Q. (Invited speaker)
5 Dec 2016 → 7 Dec 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Nanyang Technological University
Dominkovic, D. F. (Visiting researcher)
1 Dec 2016 → 31 Mar 2017
Activity: Visiting an external institution › Visiting another research institution

7th European Kesterite Workshop
Rein, C. (Participant)
17 Nov 2016 → 18 Nov 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Solid-State Li-S Batteries based on Borohydride Solid Electrolyte
Blanchard, D. (Invited speaker)
17 Nov 2016
Activity: Talks and presentations › Conference presentations

Solid-State Li-S Batteries based on Borohydride Solid Electrolyte
Blanchard, D. (Invited speaker)
16 Nov 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Computational methods for accelerated DFT-based design of energy materials
Vegge, T. (Invited speaker)
8 Nov 2016
Activity: Talks and presentations › Conference presentations

High Performance Thermoelectric Materials and Modules for Harvesting Waste Heat
Van Nong, N. (Invited speaker)
8 Nov 2016 → 12 Nov 2016
Activity: Talks and presentations › Conference presentations

August Wilhelm Scheer
Vegge, T. (Host)
6 Nov 2016 → 11 Nov 2016
Activity: Hosting a guest lecturer
Processing parameters and raw material influence on the microstructure and performance of SiC membranes for water filtration
Della Negra, M. (Lecturer)
2 Nov 2016 → 3 Nov 2016
Activity: Talks and presentations › Conference presentations

Materials Science & Technology 2016 (MS&T16) conference
Chen, M. (Invited speaker)
Activity: Talks and presentations › Conference presentations

From CO2 to Sustainable Fuels and Chemicals
Vegge, T. (Invited speaker)
Activity: Talks and presentations › Conference presentations

69th Annual Gaseous Electronics Conference
Chen, M. (Invited speaker)
10 Oct 2016
Activity: Talks and presentations › Conference presentations

Computational design of nanoalloys using DFT calculations, genetic algorithms and machine learning
Vegge, T. (Invited speaker)
Activity: Talks and presentations › Conference presentations

PRiME 2016/230th ECS Meeting
Hu, Y. (Speaker)
6 Oct 2016
Activity: Talks and presentations › Conference presentations

Denmark-China Bilateral Workshop on Energy Conversion and Storage
Chen, M. (Organizer)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Electrochemical Characterization of PEMECs Operating at Various Current Densities
Elsøe, K. (Guest lecturer)
2 Oct 2016
Activity: Talks and presentations › Conference presentations

EXPERIMENTAL PROOF OF CONCEPT OF A PIEZOELECTRIC-SHAPE MEMORY ENERGY HARVESTER
Engelbrecht, K. (Supervisor)
2 Oct 2016 → 2 Apr 2017
Activity: Examinations and supervision › Supervisor activities

Genetic Algorithms and DFT for Accelerated Design of Nanoalloys
Hansen, H. A. (Invited speaker)
2 Oct 2016 → 7 Oct 2016
Activity: Talks and presentations › Conference presentations

PRiME 2016/230th ECS Meeting
De Angelis, S. (Participant)
2 Oct 2016
Activity: Attending an event › Participating in or organising a conference
In situ X-ray diffraction studies of electrode materials in working metal-ion batteries and other layered materials
Johnsen, R. E. (Invited speaker)
20 Sep 2016
Activity: Talks and presentations › Conference presentations

Error Identification in DFT for Sustainable Energy Technologies
Christensen, R. (Invited speaker)
15 Sep 2016
Activity: Talks and presentations › Conference presentations

7th International Conference on Magnetic Refrigeration at Room Temperature (Thermag VII)
Bahl, C. (Speaker)
11 Sep 2016 → 14 Sep 2016
Activity: Talks and presentations › Conference presentations

Brown University
Christensen, R. (Visiting researcher)
11 Sep 2016 → 18 Sep 2016
Activity: Visiting an external institution › Visiting another research institution

11th Conference on Sustainable Development of Energy, Water and Environment Systems
Dominkovic, D. F. (Speaker)
4 Sep 2016 → 9 Sep 2016
Activity: Talks and presentations › Conference presentations

Quasi-Elastic Neutron Scattering studies for Material Research
Blanchard, D. (Invited speaker)
2 Sep 2016
Activity: Talks and presentations › Conference presentations

Dänemark ohne fossile Brennstoffe: Möglichkeiten für die Hochtemperaturbrennstoffzelle und Elektrolyse
Hagen, A. (Guest lecturer)
Aug 2016
Activity: Talks and presentations › Conference presentations

SOFC/SOEC in Dänemark – Status und Herausforderungen in einer neuen Finanzierungslandschaft
Hagen, A. (Guest lecturer)
Aug 2016
Activity: Talks and presentations › Conference presentations

Quasi-Elastic Neutron Scattering Studies on Solid Electrolytes for all-solid-state Lithium Batteries
Blanchard, D. (Invited speaker)
30 Aug 2016
Activity: Talks and presentations › Conference presentations

IN-SITU TRANSMISSION ELECTRON MICROSCOPY ON OPERATING ELECTROCHEMICAL CELLS
Gualandris, F. (Speaker)
28 Aug 2016 → 2 Sep 2016
Activity: Talks and presentations › Conference presentations

SOCs for various occasions
Linderoth, S. (Lecturer)
24 Aug 2016
Activity: Talks and presentations › Conference presentations
67th Annual Meeting of the International Society of Electrochemistry in The Hague
Hansen, H. A. (Speaker)
Activity: Talks and presentations › Conference presentations

2016 CAMD Summer School on Electronic Structure Theory and Materials Design
Vegge, T. (Organizer)
Activity: Attending an event › Participating in or organising a conference

Atomic Scale Modeling of Electrocatalytic Reactions
Hansen, H. A. (Invited speaker)
12 Aug 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

15th International Symposium on Metal-Hydrogen Systems
Blanchard, D. (Speaker)
10 Aug 2016
Activity: Talks and presentations › Conference presentations

Computational Design of Materials for Hydrogen Storage, Batteries and Electrocatalysis
Vegge, T. (Invited speaker)
Activity: Talks and presentations › Conference presentations

Summer school on Smart Energy Systems and Entrepreneurship
Dominkovic, D. F. (Speaker)
Activity: Talks and presentations › Conference presentations

Bayesian statistics to improve accuracy through identification and correction of systematic errors in DFT
Vegge, T. (Invited speaker)
24 Jul 2016 → 29 Jul 2016
Activity: Talks and presentations › Conference presentations

CEA-TUM Summer School on the Future of a Common European Strategy
Dominkovic, D. F. (Speaker)
6 Jul 2016
Activity: Talks and presentations › Conference presentations

Presentation of DTU Energy: by Professor Søren Linderoth
Linderoth, S. (Speaker)
6 Jul 2016
Activity: Other

12th European SOFC & SOE Forum 2016
Chen, M. (Speaker)
5 Jul 2016 → 8 Jul 2016
Activity: Talks and presentations › Conference presentations

Workshop on Ion Exchange Membranes for Energy Applications
Kirkebæk, A. (Participant)
27 Jun 2016 → 29 Jun 2016
Activity: Attending an event › Participating in or organising a conference
29th International Conference on Efficiency, Cost, Optimisation, Simulation and Environmental Impact of Energy Systems
Dominkovic, D. F. (Speaker)
21 Jun 2016
Activity: Talks and presentations › Conference presentations

Computational Design of Materials for Electrochemical Energy Storage at DTU Energy
Vegge, T. (Invited speaker)
21 Jun 2016 → 22 Jun 2016
Activity: Talks and presentations › Conference presentations

Trends and frontiers in solid state energy conversion - materials and technologies
Bahl, C. (Keynote speaker)
20 Jun 2016
Activity: Talks and presentations › Conference presentations

6th Baltic Electrochemistry Conference
Melander, M. (Speaker)
17 Jun 2016
Activity: Talks and presentations › Conference presentations

2nd South East European Conference on Sustainable Development of Energy, Water and Environment Systems
Dominkovic, D. F. (Speaker)
15 Jun 2016 → 18 Jun 2016
Activity: Talks and presentations › Conference presentations

Nanocoﬁned LiBH4 in mesoporous silica scaffold as solid electrolyte for solid-state Lithium battery
Blanchard, D. (Invited speaker)
14 Jun 2016
Activity: Talks and presentations › Conference presentations

Hydrogen2Storage & Transport in Denmark
Chen, M. (Participant)
8 Jun 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

GPAW 2016: Users and developers meeting
Melander, M. (Speaker)
6 Jun 2016 → 10 Jun 2016
Activity: Talks and presentations › Conference presentations

Effect of fast mass diffusion regime on defective ceria mechano-chemo-electrical properties: By Vincenzo Esposito
Esposito, V. (Invited speaker)
2 Jun 2016
Activity: Talks and presentations › Conference presentations

Hydrides as Energy Materials
Blanchard, D. (Speaker)
2 Jun 2016
Activity: Talks and presentations › Conference presentations

Integrated Computational and Experimental Design of Next-Generation Battery Materials
Vegge, T. (Invited speaker)
1 Jun 2016 → 3 Jun 2016
Activity: Talks and presentations › Conference presentations
The 229th ECS Meeting
Hansen, H. A. (Speaker)
29 May 2016 → 2 Jun 2016
Activity: Talks and presentations › Conference presentations

The 229th ECS Meeting
Tripkovic, V. (Speaker)
29 May 2016 → 2 Jun 2016
Activity: Talks and presentations › Conference presentations

Lithium-Sulfur Solid-State Batteries Based on Nanoconfined LiBH4
Blanchard, D. (Invited speaker)
24 May 2016
Activity: Talks and presentations › Conference presentations

9th European Heat Pump Forum
Dominkovic, D. F. (Participant)
18 May 2016 → 20 May 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

2016 E-MRS Spring Meeting and Exhibit
Johnsen, R. E. (Speaker)
2 May 2016 → 6 May 2016
Activity: Talks and presentations › Conference presentations

Solid Oxide Fuel Cells at DTU Energy – From fundamental research towards application for renewable energy systems
Hagen, A. (Guest lecturer)
Apr 2016
Activity: Talks and presentations › Conference presentations

Large scale heat pumps as a link between intermittent electrical energy sources and district heating sector
Dominkovic, D. F. (Invited speaker)
20 Apr 2016
Activity: Talks and presentations › Conference presentations

Introduction to DTU Energy Research
Linderoth, S. (Participant)
8 Apr 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Sino-Denmark Bilateral Forum: Possibilities and Challenges of Solid Oxide Cells in Energy Transition
Linderoth, S. (Speaker)
8 Apr 2016 → 11 Apr 2016
Activity: Talks and presentations › Conference presentations

Sino-Denmark Bilateral Forum: Possibilities and Challenges of Solid Oxide Cells in Energy Transition
Chen, M. (Organizer)
8 Apr 2016 → 11 Apr 2016
Activity: Attending an event › Participating in or organising a conference

Hydrogen Day 2016
Li, Q. (Participant)
6 Apr 2016 → 8 Apr 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Computational Design of Materials Atomic-scale modeling of electrode reactions in Zn-air batteries
Vegge, T. (Invited speaker)
4 Apr 2016 → 6 Apr 2016
Activity: Talks and presentations › Conference presentations

Challenges in Going from 2nd Order to 1st Order Materials in Magnetic Refrigeration Devices
Bahl, C. (Invited speaker)
28 Mar 2016 → 1 Apr 2016
Activity: Talks and presentations › Conference presentations

Electrolysis and electrochemistry
Hagen, A. (Other)
29 Feb 2016 → 4 Mar 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Boron removal from molten silicon using different gas blowing mixtures
Bowen, J. R. (Supervisor), Gabriella Tranell (Main supervisor), Jafar Safarian (Supervisor)
26 Feb 2016 → 26 Jul 2016
Activity: Examinations and supervision › Supervisor activities

10th International Symposium "Hydrogen & Energy"
Blanchard, D. (Speaker)
21 Feb 2016 → 26 Feb 2016
Activity: Talks and presentations › Conference presentations

Computational Design of Materials for Electrochemical Energy Conversion and Storage
Vegge, T. (Invited speaker)
21 Feb 2016 → 25 Feb 2016
Activity: Talks and presentations › Conference presentations

Platform for smart energi, Energistyrelsen (External organisation)
Pedersen, A. S. (Participant)
15 Feb 2016 → 30 Jun 2017
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

40th International Conference and Exposition on Advanced Ceramics and Composites
Esposito, V. (Organizer)
24 Jan 2016 → 29 Jan 2016
Activity: Attending an event › Participating in or organising a conference

High Pressure Synthesis of Non-precious Metal ORR Catalysts for Fuel Cells
Li, Q. (Invited speaker)
18 Jan 2016 → 19 Jan 2016
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

24th International Materials Research Congress
Neves Bez, H. (Speaker)
2015
Activity: Talks and presentations › Conference presentations

Annual Meeting of the Danish Electrochemical Society 2015
Hu, Y. (Speaker)
2015
Activity: Talks and presentations › Conference presentations
Chemical Engineering Journal (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

Delft Days on Magnetocalorics 2015
Neves Bez, H. (Participant)
2015
Activity: Attending an event › Participating in or organising a conference

European School of Magnetism
Neves Bez, H. (Participant)
2015 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Fuel Cells (Journal)
Hagen, A. (Reviewer)
2015
Activity: Communication › Journal editor

Fuel Cells (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

International Journal of Hydrogen Energy (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

Journal of Power Sources (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

Journal of Solid State Electrochemistry (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

PhD thesis Lisa Deleebeeck: Censor
Hagen, A. (Internal examiner)
2015
Activity: Examinations and supervision › Internal examination

PhD thesis Olivier Thomann: Censor
Hagen, A. (External examiner)
2015
Activity: Examinations and supervision › External examination

RFCcontrol: Open source control software for fuel cell and electrolyser test stations
Koch, S. (Participant)
2015
Activity: Other
Study of mesoporous ZSM-5
Hagen, A. (Other)
2015 → 2016
Activity: Other

Topics in catalysis (Journal)
Hagen, A. (Reviewer)
2015
Activity: Research › Peer review of manuscripts

Helmholtz Institute Ulm (External organisation)
Vegge, T. (Participant)
18 Dec 2015 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Accelerated DFT-based Design of Materials for Ammonia Storage
Vegge, T. (Invited speaker)
15 Dec 2015
Activity: Talks and presentations › Conference presentations

Nordic Battery Conference 2015
Loftager, S. (Participant)
2 Dec 2015 → 3 Dec 2016
Activity: Attending an event › Participating in or organising a conference

Modelling, optimisation, design and analysis of integrated energy systems
Dominkovic, D. F. (Participant)
30 Nov 2015 → 4 Dec 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Computational Design of Materials for Energy Conversion and Storage
Vegge, T. (Invited speaker)
20 Nov 2015
Activity: Talks and presentations › Conference presentations

Gas network modelling: Master Thesis by Marco Cavana
Pedersen, A. S. (Supervisor)
15 Nov 2015 → 10 Jul 2016
Activity: Examinations and supervision › Supervisor activities

On the Analysis of Positron Lifetime Spectra
Eldrup, M. M. (Lecturer)
12 Nov 2015 → 13 Nov 2015
Activity: Talks and presentations › Conference presentations

DFT Studies of the Oxygen Reduction Reaction on Fe3C-graphite catalysts
Hansen, H. A. (Keynote speaker)
10 Nov 2015
Activity: Talks and presentations › Conference presentations

International Conference on Innovative Electrochemical Energy Materials and Technologies
Reda, M. K. (Speaker)
8 Nov 2015 → 11 Nov 2015
Activity: Talks and presentations › Conference presentations
International Conference on Innovative Electrochemical Energy Materials and Technologies
Reda, M. K. (Speaker)
8 Nov 2015 → 11 Nov 2015
Activity: Talks and presentations › Conference presentations

A Perspective on Next-generation Battery Technologies
Vegge, T. (Invited speaker)
5 Nov 2015
Activity: Talks and presentations › Conference presentations

Delft Days on Magnetocalorics 2015
Bahl, C. (Participant)
2 Nov 2015 → 3 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Delft Days on Magnetocalorics 2015
Insinga, A. R. (Participant)
2 Nov 2015 → 3 Nov 2015
Activity: Attending an event › Participating in or organising a conference

Danish Electrochemical Society (External organisation)
Traulsen, M. L. (Chairman)
1 Nov 2015 → …
Activity: Membership › Board duties in companies, associations, or public organisations

Descriptor based Design of Catalytic Nanoalloys and Clusters using Density Functional Theory and Genetic Algorithms
Vegge, T. (Invited speaker)
26 Oct 2015 → 29 Oct 2015
Activity: Talks and presentations › Conference presentations

High Performance Segmented Oxides-based Materials
Van Nong, N. (Invited speaker)
Activity: Talks and presentations › Conference presentations

PhD defense (opponent): Manuel Placencia Gutierrez, "Searching for saddle points and global minima"
Vegge, T. (External examiner)
20 Oct 2015
Activity: Examinations and supervision › External examination

BACHU NARAIN SINGH: ENDURING IMPACT ON RADIATION DAMAGE PHYSICS
Eldrup, M. M. (Speaker)
Activity: Talks and presentations › Conference presentations

Ionic and electronic transport properties in LiFeBO3 from DFT
Vegge, T. (Invited speaker)
6 Oct 2015 → 8 Oct 2015
Activity: Talks and presentations › Conference presentations

Workshop on Understanding Interfaces in Electrochemical Storage Systems
Loftager, S. (Participant)
6 Oct 2015 → 7 Oct 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
The 66th Annual Meeting of the International Society of Electrochemistry
Hauch, A. (Participant)
4 Oct 2015 → 9 Oct 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

ELECTROCHEMICAL CONVERSION OF CO2 INTO LIQUID FUEL ON RuO2 (110) OVERLAYERS
Bhowmik, A. (Lecturer)
2 Oct 2015
Activity: Talks and presentations › Conference presentations

Annual Meeting of the Danish Electrochemical Society 2015
Reda, M. K. (Speaker)
1 Oct 2015 → 2 Oct 2015
Activity: Talks and presentations › Conference presentations

ISOS-8
Corazza, M. (Speaker)
1 Oct 2015
Activity: Talks and presentations › Conference presentations

PhD defense (opponent): Kristian Baruel Ørnsø, "Computational design of molecules for dye sensitized solar cells and nano electronics"
Vegge, T. (Internal examiner)
1 Oct 2015
Activity: Examinations and supervision › Internal examination

Nye Energiteknologier: Danmarks fremtidige energisystem uden fossile brændstoffer – Brændselceller og elektrolyse
Hagen, A. (Participant)
Sep 2015 → Oct 2015
Activity: Other

Polybenzimidazole membranes in alkaline water electrolysis: Chemical and electrochemical stability
Kraglund, M. R. (Other)
29 Sep 2015 → 1 Oct 2015
Activity: Talks and presentations › Conference presentations

Electricity Storage in Batteries
Vegge, T. (Invited speaker)
28 Sep 2015
Activity: Talks and presentations › Conference presentations

Energy Supply Modelling in Cities: Illustrated Using Data from the Danish Municipality of Sønderborg
Sveinbjörnsson, D. Þ. (Keynote speaker)
28 Sep 2015
Activity: Talks and presentations › Conference presentations

Er der vedvarende energi nok til os alle?
Hauch, A. (Lecturer)
21 Sep 2015 → 25 Sep 2015
Activity: Talks and presentations › Conference presentations

4th Metal-air Workshop
Christensen, R. (Speaker)
14 Sep 2015 → 15 Sep 2015
Activity: Talks and presentations › Conference presentations
IN SITU SMALL ANGLE STUDIES OF ROLL-TO-ROLL COATED PEROVSKITE SOLAR CELLS
Rossander, L. H. (Speaker)
14 Sep 2015
Activity: Talks and presentations › Conference presentations

In situ GISAXS/GIWAXS studies of roll-to-roll coated perovskite solar cells
Rossander, L. H. (Speaker)
10 Sep 2015
Activity: Talks and presentations › Conference presentations

PSI-K 2015 Conference
Loftager, S. (Participant)
6 Sep 2015 → 10 Sep 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Energy Supply Modelling in Cities: Illustrated Using Data from the Case of Sønderborg
Sveinbjörnsson, D. Þ. (Speaker)
1 Sep 2015
Activity: Talks and presentations › Conference presentations

Journal of Fuel Cell Science and Technology (Journal)
Bowen, J. R. (Editor)
1 Sep 2015 → 31 Aug 2018
Activity: Research › Journal editor

Novel Heterostructured and Multilayered Oxide Thin Films for Future Applications
Linderoth, S. (Keynote speaker)
1 Sep 2015 → 4 Sep 2015
Activity: Talks and presentations › Conference presentations

University of the Basque Country
Loftager, S. (Visiting researcher)
1 Sep 2015 → 30 Sep 2015
Activity: Visiting an external institution › Visiting another research institution

Journal of Electrochemical Energy Conversion and Storage (Journal)
Bowen, J. R. (Editor)
31 Aug 2015 → 31 Aug 2018
Activity: Research › Journal editor

Ionic and electronic transport in solid oxide cells – Seen from an applied perspective
Hagen, A. (Invited speaker)
25 Aug 2015
Activity: Talks and presentations › Conference presentations

European School of Magnetism
Insinga, A. R. (Participant)
24 Aug 2015 → 4 Sep 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Materials for Energy Storage – and how DFT can improve them
Vegge, T. (Invited speaker)
Activity: Talks and presentations › Conference presentations
SUNCAT Summer Institute 2015
Christensen, R. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SUNCAT Summer Institute 2015
Loftager, S. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SUNCAT Summer Institute 2015
Reda, M. K. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Improved Accuracy of Density Functional Theory Calculations for CO2 Reduction and Metal-Air Batteries
Christensen, R. (Lecturer)
19 Aug 2015
Activity: Talks and presentations › Conference presentations

Brown University
Christensen, R. (Visiting researcher)
Activity: Visiting an external institution › Visiting another research institution

Brown University
Christensen, R. (Visiting researcher)
16 Aug 2015 → 23 Aug 2015
Activity: Visiting an external institution › Visiting another research institution

The Danish SOC Landscape 2015
Hagen, A. (Invited speaker)
1 Aug 2015
Activity: Talks and presentations › Conference presentations

On the Challenge of Stabilizing Contacts in Bi-Te Thermoelectric Generator under thermal cycling
Van Nong, N. (Invited speaker)
24 Jun 2015 → 26 Jun 2015
Activity: Talks and presentations › Conference presentations

Atomic-scale modeling of materials for hydrogen-based energy storage
Vegge, T. (Invited speaker)
22 Jun 2015 → 26 Jun 2015
Activity: Talks and presentations › Conference presentations

Towards a Fossil-Free Energy System: How Possible to Achieve?
Linderoth, S. (Invited speaker)
29 May 2015
Activity: Talks and presentations › Conference presentations

Rare earth-transitional metal oxides and compounds for environment-friendly energy science and technology
Linderoth, S. (Invited speaker)
26 May 2015
Activity: Talks and presentations › Conference presentations
Rare earth-transitional metal oxides and compounds for environment-friendly energy science and technology
Bahl, C. (Invited speaker)
26 May 2015
Activity: Talks and presentations › Conference presentations

Status and Results of Energy Supply Modelling in CITIES: Illustrated using Data from the Case of Sønderborg
Sveinbjörnsson, D. Þ. (Lecturer)
26 May 2015
Activity: Talks and presentations › Conference presentations

227th ECS Meeting
Christensen, R. (Speaker)
Activity: Talks and presentations › Conference presentations

Vedvarende energi: Ny teknologi, der ændrer vores hverdag
Hauch, A. (Lecturer)
20 May 2015
Activity: Talks and presentations › Conference presentations

PhD defense (member of evaluation committee): Edith Ahlberg Helgee, *Significance of grain boundaries for transport phenomena in graphene and proton-conducting barium zirconate* at Chalmers University of Technology, Sweden (External organisation)
Vegge, T. (External examiner)
8 May 2015
Activity: Examinations and supervision › External examination

Brændselceller og elektroyse: En del af løsningen for fremtidens energiudfordringer
Hagen, A. (Invited speaker)
Apr 2015
Activity: Talks and presentations › Conference presentations

Forskningens Døgn 2015
Hagen, A. (Participant)
Apr 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Workshop on Advancing Caloric Materials for Efficient Cooling
Bahl, C. (Invited speaker)
29 Apr 2015
Activity: Talks and presentations › Conference presentations

Novel electrodes for efficient and durable electrolysis and fuel cells
Holtappels, P. (Invited speaker)
28 Apr 2015 → 29 Apr 2015
Activity: Talks and presentations › Conference presentations

3rd Conference on Frontiers of Aberration Corrected Electron Microscopy
Gualandris, F. (Speaker)
19 Apr 2015 → 23 Apr 2015
Activity: Talks and presentations › Conference presentations

Manufacturing of Green Fuels from Renewable Energy
Bhowmik, A. (Speaker)
16 Apr 2015
Activity: Talks and presentations › Conference presentations
High Temperature Alkaline Electrolysis - Progress and Potential
Chatzichristodoulou, C. (Invited speaker)
15 Apr 2015
Activity: Talks and presentations › Conference presentations

Integration of improved correction schemes and operational conditions in the design of nanoalloy catalysts for CO2 reduction
Vegge, T. (Invited speaker)
14 Apr 2015 → 16 Apr 2015
Activity: Talks and presentations › Conference presentations

Manufacturing of Green Fuels from Renewable Energy
Christensen, R. (Speaker)
14 Apr 2015 → 16 Apr 2015
Activity: Talks and presentations › Conference presentations

MRS Spring Meeting
Li, Q. (Invited speaker)
6 Apr 2015 → 10 Apr 2015
Activity: Talks and presentations › Conference presentations

Design of borohydrides and novel materials for ammonia storage
Vegge, T. (Invited speaker)
18 Mar 2015
Activity: Talks and presentations › Conference presentations

American Physical Society March Meeting 2015
Engelbrecht, K. (Participant)
3 Mar 2015
Activity: Attending an event › Participating in or organising a conference

Asilomar 2015
Li, Q. (Invited speaker)
10 Feb 2015
Activity: Talks and presentations › Conference presentations

Energikonvertering - Brændseleceller og brint: Vedvarende Energi
Hauch, A. (Lecturer)
10 Feb 2015
Activity: Talks and presentations › Conference presentations

SUNCAT Center for Interface Science and Catalysis
Christensen, R. (Visiting researcher)
8 Feb 2015 → 1 Mar 2015
Activity: Visiting an external institution › Visiting another research institution

Material & Struktur – Entscheidende Kombination für Hochtemperaturbrennstoff- und Elektrolysezellen
Hagen, A. (Invited speaker)
27 Jan 2015
Activity: Talks and presentations › Conference presentations

39th International Conference and Expo on Advanced Ceramics and Composites
Esposito, V. (Organizer)
25 Jan 2015 → 30 Jan 2015
Activity: Attending an event › Participating in or organising a conference
Materials Predictors and Genetic Algorithms for Rational Design of Electrocatalytic Nanoparticles
Vegge, T. (Invited speaker)
7 Jan 2015 → 11 Jan 2015
Activity: Talks and presentations › Conference presentations

6th IIR/IIF International Conference on Magnetic Refrigeration
Neves Bez, H. (Participant)
2014
Activity: Attending an event › Participating in or organising a conference

Angewandte Chemie (International Edition) (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Applied Catalysis A-general (Journal)
Hagen, A. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Årsmøde 2014 i Dansk Batteriselskab
Højberg, J. (Organizer)
2014 → …
Activity: Attending an event › Participating in or organising a conference

Chemical Review (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Fuel Cells (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

HyFC Academy PhD Workshop on Catalysts for Fuel Cells and Electrolysers
Mugabi, J. A. (Participant)
2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Journal of Chemical Physics (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Nature Chemistry (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Nature Materials (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts
Optical antennas, optical cavity and photonic crystals to enhance the performance of organic solar cells
Pastorelli, F. (Speaker)
2014
Activity: Talks and presentations › Conference presentations

QuantumHagen
Christensen, R. (Participant)
2014 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Referee for Netherlands Organisation for Scientific Research (NWO) - Chemical Sciences (External organisation)
Vegge, T. (Member)
2014
Activity: Membership › Membership in review committee

Referee for US Department of Energy (DoE), Energy Frontiers Research Centers (EFRC) (External organisation)
Vegge, T. (Member)
2014
Activity: Membership › Membership in review committee

ReLiable Workshop III
Christensen, R. (Participant)
2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Semitransparent Organic Solar Cell toward Opaque Performances
Pastorelli, F. (Speaker)
2014 → …
Activity: Talks and presentations › Conference presentations

The Journal of Physical Chemistry Part C: Nanomaterials, Interfaces and Hard Matter (Journal)
Vegge, T. (Reviewer)
2014
Activity: Research › Peer review of manuscripts

Elchemea Data Aquisition: Software til impedansspektroskopi, cyklisk voltametri samt chronopotentiometri/amperometri
Koch, S. (Participant)
Dec 2014
Activity: Other

Scalable Roll-to-Roll Fabrication for Fully Solution-Processed Polymer Solar Cells from Small-Scale Test Devices to Multi Square Meter Large Modules for Energy Production
Hösel, M. (Speaker)
3 Dec 2014
Activity: Talks and presentations › Conference presentations

International Carisma Conference
Jensen, J. O. (Speaker)
1 Dec 2014 → 3 Dec 2014
Activity: Talks and presentations › Conference presentations

2014 MRS Fall Meeting & Exhibit
Ovtar, S. (Participant)
30 Nov 2014 → 5 Dec 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Conference on Energy and Environment for the Future
Pedersen, E. B. L. (Speaker)
24 Nov 2014 → 25 Nov 2014
Activity: Talks and presentations › Conference presentations

Conference on Energy and Environment for the Future
Jensen, J. O. (Speaker)
24 Nov 2014 → 25 Nov 2014
Activity: Talks and presentations › Conference presentations

Børnenes Universitet 2014
Hagen, A. (Organizer)
22 Nov 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Andet symposium hos Institut for Energikonvertering- og lagring
Loftager, S. (Participant)
21 Nov 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Positron Annihilation Spectroscopy on LiBH4 and LiBH4:Li superionic lithium conductors
Eldrup, M. M. (Lecturer)
13 Nov 2014
Activity: Talks and presentations › Conference presentations

Overpotentials and Transport Mechanisms in Metal-air Batteries
Vegge, T. (Invited speaker)
12 Nov 2014
Activity: Talks and presentations › Conference presentations

Symposium on Nanoscale Thermal Transport
Nielsen, K. K. (Participant)
10 Nov 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

High temperature electrolysis activities at Technical University of Denmark
Ebbesen, S. D. (Invited speaker)
7 Nov 2014
Activity: Talks and presentations › Conference presentations

The Needs for Storage/Flexibility in the Danish Energy System: Drivers, application areas and requirements
Pedersen, A. S. (Lecturer)
5 Nov 2014
Activity: Talks and presentations › Conference presentations

Metal-air Batteries: Fundamental Mechanisms and Limitations
Vegge, T. (Invited speaker)
4 Nov 2014 → 6 Nov 2014
Activity: Talks and presentations › Conference presentations

Optimization model for transportation fuels and SNG production from renewable sources in Denmark: Master Thesis
Alessia Elia
Pedersen, A. S. (Supervisor)
1 Nov 2014 → 1 Jul 2015
Activity: Examinations and supervision › Supervisor activities
Magnetic Materials and Applications seminar
Bahl, C. (Participant)
28 Oct 2014 → Dec 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Conference on X-Ray Microscopy
Pedersen, E. B. L. (Speaker)
26 Oct 2014 → 31 Oct 2014
Activity: Talks and presentations › Conference presentations

Solid oxide cells: Smart electrochemical devices for the smart energy systems of the future
Hagen, A. (Invited speaker)
22 Oct 2014
Activity: Talks and presentations › Conference presentations

Esposito, V. (Invited speaker)
14 Oct 2014
Activity: Talks and presentations › Conference presentations

The Focused Ion Beam – Scanning Electron Microscope: A tool for sample preparation, two and three dimensional imaging
Bowen, J. R. (Guest lecturer)
13 Oct 2014
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

ISOS-7
Corazza, M. (Speaker)
7 Oct 2014
Activity: Talks and presentations › Conference presentations

A Stability Study of Alkali Doped PBI Membranes for Alkaline Electrolyzer Cells
Jensen, J. O. (Invited speaker)
5 Oct 2014 → 10 Oct 2014
Activity: Talks and presentations › Conference presentations

HIGH TEMPERATURE ALKALINE ELECTROLYSIS
Chatzichristodoulou, C. (Lecturer)
2 Oct 2014
Activity: Talks and presentations › Conference presentations

Er der vedvarende energi nok til os alle?: Om brændselsceller og electrolyseceller til effektiv energikonvertering
Hauch, A. (Lecturer)
26 Sep 2014
Activity: Talks and presentations › Conference presentations

Atomic-scale modeling in fuel cell, electrolyser and battery research; Transport modeling in batteries - ionic and electronic transport; Beyond Li-ion - resource-efficient batteries
Vegge, T. (Invited speaker)
22 Sep 2014 → 26 Sep 2014
Activity: Talks and presentations › Conference presentations

Massive scale production and installation of flexible printed solar cells
Hösel, M. (Speaker)
19 Sep 2014  
Activity: Talks and presentations › Conference presentations  

**Solid State Protonic Conductors - 17**  
Jensen, J. O. (Invited speaker)  
14 Sep 2014 → 19 Sep 2014  
Activity: Talks and presentations › Conference presentations  

**Future Challenges for Room Temperature AMR Devices**  
Engelbrecht, K. (Keynote speaker)  
10 Sep 2014  
Activity: Talks and presentations › Conference presentations  

**Microstructure analysis of vacuum plasma sprayed electrodes for alkaline electrolysis**  
Bowen, J. R. (Speaker)  
10 Sep 2014  
Activity: Talks and presentations › Conference presentations  

**Design and Initial Testing of a Compact and Efficient Rotary AMR Prototype**  
Eriksen, D. (Speaker)  
8 Sep 2014  
Activity: Talks and presentations › Conference presentations  

**6th IIR/IIF International Conference on Magnetic Refrigeration**  
Bahl, C. (Participant)  
7 Sep 2014 → 10 Sep 2014  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.  

**International Summer School on OPV**  
Corazza, M. (Speaker)  
4 Sep 2014  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities  

**DTU Energy Conversion 2nd International PhD Summer School**  
Bowen, J. R. (Participant)  
29 Aug 2014  
Activity: Other  

**DTU Energy Conversion 2nd International PhD Summer School**  
Jespersen, K. M. (Participant)  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.  

**DTU Energy Conversion 2nd International PhD Summer School**  
Bentzen, J. J. (Participant)  
24 Aug 2014 → 29 Aug 2014  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.  

**International Conference on SINTERING 2014**  
Teocoli, F. (Participant)  
Activity: Attending an event › Participating in or organising a conference  

**Magnetocaloric Cooling and Heating**  
Linderoth, S. (Lecturer)  
22 Aug 2014
Activity: Talks and presentations › Conference presentations

Academic research in higher education
Ngo, D. (Invited speaker)
20 Aug 2014
Activity: Talks and presentations › Conference presentations

5th International Conference on Ceramics
Linderoth, S. (Keynote speaker)
18 Aug 2014 → 22 Aug 2014
Activity: Talks and presentations › Conference presentations

2014 CAMD Summer School on Electronic Structure Theory and Materials Design
Christensen, R. (Participant)
17 Aug 2014 → 23 Aug 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Electrochemical Energy Storage and Electrofuels
Vegge, T. (Invited speaker)
17 Aug 2014 → 23 Aug 2014
Activity: Talks and presentations › Conference presentations

14th International Symposium on Metal-Hydrogen Systems: Fundamentals and Applications
Blanchard, D. (Participant)
22 Jul 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Board Committee Member of The International Academy of Electrochemical Energy Science (External organisation)
Li, Q. (Participant)
14 Jul 2014 → 14 Jul 2017
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

13th International Conference Inorganic Membranes
Cheng, S. (Speaker)
8 Jul 2014
Activity: Talks and presentations › Conference presentations

Overview of SOFC/SOEC development at DTU Energy Conversion
Hagen, A. (Lecturer)
2 Jul 2014
Activity: Talks and presentations › Conference presentations

Designing Nanoparticle Electrocatalysts for Sustainable Production of Synthetic Fuels
Vegge, T. (Invited speaker)
1 Jul 2014 → 3 Jul 2014
Activity: Talks and presentations › Conference presentations

European fuel cell 2014 - 11th European SOFC and SOE Forum 2014
Charlas, B. (Participant)
1 Jul 2014 → 4 Jul 2014
Activity: Attending an event › Participating in or organising a conference

European fuel cell 2014 - 11th European SOFC and SOE Forum 2014
Hauch, A. (Speaker)
1 Jul 2014 → 4 Jul 2014
Activity: Talks and presentations › Conference presentations
QuantumWise Workshop
Loftager, S. (Participant)
1 Jul 2014 → 3 Jul 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Van Nong, N. (Chairman)
Jun 2014
Activity: Attending an event › Participating in or organising a conference

IUMRS-ICEM 2014
Van Nong, N. (Invited speaker)
Jun 2014
Activity: Talks and presentations › Conference presentations

International Conference on Synthetic Metal
Pedersen, E. B. L. (Speaker)
30 Jun 2014 → 5 Jul 2014
Activity: Talks and presentations › Conference presentations

In situ and operando X-ray absorption spectroscopy on SOFC materials and cells
Hagen, A. (Lecturer)
27 Jun 2014
Activity: Talks and presentations › Conference presentations

ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis
Engelbrecht, K. (Organizer)
25 Jun 2014 → 27 Jun 2014
Activity: Attending an event › Participating in or organising a conference

Computational Search for Improved Ammonia Storage Materials
Jensen, P. B. (Lecturer)
19 Jun 2014
Activity: Talks and presentations › Conference presentations

CIMTEC 2014
Blanchard, D. (Speaker)
18 Jun 2014
Activity: Talks and presentations › Conference presentations

Materials Predictors and Genetic Algorithms for Rational Design of Electrocatalytic Nanoclusters
Vegge, T. (Invited speaker)
16 Jun 2014 → 21 Jun 2014
Activity: Talks and presentations › Conference presentations

20th World Hydrogen Energy Conference 2014
Jensen, J. O. (Speaker)
15 Jun 2014 → 20 Jun 2014
Activity: Talks and presentations › Conference presentations

Danscatt Annual Meeting 2014
Pedersen, E. B. L. (Speaker)
22 May 2014 → 23 May 2014
Activity: Talks and presentations › Conference presentations
Designing New Materials for Ammonia Storage Using Density Functional Theory and Genetic Algorithms
Jensen, P. B. (Lecturer)
14 May 2014
Activity: Talks and presentations › Conference presentations

QENS 2014 / WINS 2014
Blanchard, D. (Speaker)
13 May 2014
Activity: Talks and presentations › Conference presentations

Will organic photovoltaic technology render benefits in a near future of a 30 years horizon?
Espinosa Martinez, N. (Lecturer)
12 May 2014
Activity: Talks and presentations › Conference presentations

Brændselceller og elektrolyse: En del af løsningen for fremtidens energiudfordringer
Hagen, A. (Invited speaker)
Apr 2014
Activity: Talks and presentations › Conference presentations

Forskningens Døgn 2014
Hagen, A. (Organizer)
Apr 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Infinitely Large Organic Solar Cell Modules: At The Edge Of Traditional Territories For Power Supply
Espinosa Martinez, N. (Invited speaker)
16 Apr 2014
Activity: Talks and presentations › Conference presentations

Fully printed multi square meter large organic solar cell modules for real energy production
Hösel, M. (Speaker)
15 Apr 2014
Activity: Talks and presentations › Conference presentations

Outdoor Operational Stability of Indium-free Polymer Solar Cell Modules Investigated over 1 year
Angmo, D. (Speaker)
15 Apr 2014
Activity: Talks and presentations › Conference presentations

IRENA Workshop - The Transformative Power of Storage: Developing IRENA`s Electricity Storage Roadmap
Pedersen, A. S. (Lecturer)
27 Mar 2014
Activity: Talks and presentations › Conference presentations

What is a solar cell
Corazza, M. (Lecturer)
27 Mar 2014
Activity: Talks and presentations › Conference presentations

Department of Energy Conversion and Storage-Solid Oxide Fuel and Electrolysis Cells
Hagen, A. (Invited speaker)
12 Mar 2014
Activity: Talks and presentations › Conference presentations
Dansk energisystem uden fossile brændsler – er det muligt?
Linderoth, S. (Speaker)
6 Mar 2014
Activity: Talks and presentations › Conference presentations

Computational of Nanoparticle Catalysts for Sustainable Production of Synthetic Fuels
Vegge, T. (Invited speaker)
16 Feb 2014 → 21 Feb 2014
Activity: Talks and presentations › Conference presentations

High resolution ptychographic tomography of soft matter
Andreasen, J. W. (Invited speaker)
30 Jan 2014
Activity: Talks and presentations › Conference presentations

Mechanical Properties of Ceramics and Glass
Teocoli, F. (Participant)
30 Jan 2014 → 31 Jan 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

38th International Conference and Expo on Advanced Ceramics and Composites
Esposito, V. (Organizer)
26 Jan 2014 → 31 Jan 2014
Activity: Attending an event › Participating in or organising a conference

Thermo-mechanical properties of SOFC components investigated by a combined method
Teocoli, F. (Speaker)
26 Jan 2014
Activity: Talks and presentations › Conference presentations

Eurotech participants meeting
Corazza, M. (Speaker)
23 Jan 2014
Activity: Talks and presentations › Conference presentations

Chemical Vapour Deposition: CVD of Tantalum
Mugabi, J. A. (Other)
2013
Activity: Talks and presentations › Conference presentations

Delft Days on Magnetocalorics (2013)
Neves Bez, H. (Participant)
2013
Activity: Attending an event › Participating in or organising a conference

Elchemea Analytical: Software til impedans-analyse
Koch, S. (Participant)
2013
Activity: Other

Light trapping with plasmonic oligomers and photonic crystals to enhance the performance of organic solar cells devices
Pastorelli, F. (Speaker)
2013 → ...
Activity: Talks and presentations › Conference presentations
Plasmonic Oligomers studies to Enhance the Performance of Organic Solar Cells devices
Pastorelli, F. (Speaker)
2013 → …
Activity: Talks and presentations › Conference presentations

Topical meeting on "Dispersion and interface chemistry" in the Danish Ceramic Society
Della Negra, M. (Invited speaker)
18 Dec 2013
Activity: Talks and presentations › Conference presentations

Microstructure characterisation of solid oxide electrolysis cells operated at high current density
Bowen, J. R. (Invited speaker)
6 Dec 2013
Activity: Talks and presentations › Conference presentations

Combined computational and experimental study of the role of CO2 poisoning on the electronic conduction and overpotentials in Li-air batteries
Vegge, T. (Invited speaker)
4 Dec 2013 → 5 Dec 2013
Activity: Talks and presentations › Conference presentations

Electrospin our Energy Devices
Zhang, W. (. (Invited speaker)
3 Dec 2013
Activity: Talks and presentations › Conference presentations

Shaping our Energy Future with Electrospinning
Zhang, W. (. (Invited speaker)
2 Dec 2013
Activity: Talks and presentations › Conference presentations

the 10th International Symposium on Novel Carbon Resource Sciences
Van Nong, N. (Lecturer)
2 Dec 2013
Activity: Talks and presentations › Conference presentations

2013 MRS Fall Meeting & Exhibit
Le, T. H. (Participant)
1 Dec 2013 → 6 Dec 2013
Activity: Attending an event › Participating in or organising a conference

Design of Experiment
Teocoli, F. (Participant)
26 Nov 2013 → 27 Nov 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

3-Dimensional Nanofiber Electrodes for Solide Oxide Fuel Cells and Proton Exchange Membrane Fuel Cells
Zhang, W. (. (Lecturer)
25 Nov 2013
Activity: Talks and presentations › Conference presentations

Sustainable Fuels from Renewable Energies
Mogensen, M. B. (Invited speaker)
20 Nov 2013
Activity: Talks and presentations › Conference presentations
Electrochemical Energy Storage - Batteries
Vegge, T. (Invited speaker)
14 Nov 2013
Activity: Talks and presentations › Conference presentations

ENHANCED MASS DIFFUSION PHENOMENA IN HIGHLY DEFECTIVE DOPED CERIA: LIMITS AND APPLICATIONS:
Ionic and Electronic Conductors and Applications to Solid Oxide Fuel Cells and Membrane Technology
Esposito, V. (Invited speaker)
13 Nov 2013
Activity: Talks and presentations › Conference presentations

DTU Energy Conversion PhD symposium 2013
Le, T. H. (Participant)
8 Nov 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Første symposium hos Institut for Energikonvertering- og lagring
Loftager, S. (Participant)
8 Nov 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Van Nong, N. (Invited speaker)
3 Nov 2013 → 6 Nov 2013
Activity: Talks and presentations › Conference presentations

Delft Days on Magnetocalorics (2013)
von Moos, L. (Participant)
28 Oct 2013 → 29 Oct 2013
Activity: Attending an event › Participating in or organising a conference

Calculational and experimental study of the role of CO2 poisoning on the electronic conduction and overpotentials in Li-air batteries
Vegge, T. (Speaker)
27 Oct 2013 → 31 Oct 2013
Activity: Talks and presentations › Conference presentations

Design and optimisation of permanent magnet systems for magnetic refrigeration
Bahl, C. (Lecturer)
25 Oct 2013
Activity: Talks and presentations › Conference presentations

13th International Symposium on Solid Oxide Fuel Cells (SOFC-XIII)
Hauch, A. (Participant)
6 Oct 2013 → 11 Oct 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The Danish Energy Agreement and Solid Oxide Cells
Hagen, A. (Lecturer)
6 Oct 2013
Activity: Talks and presentations › Conference presentations

Smart Energy Conversion and Storage Conference
Mogensen, M. B. (Invited speaker)
2 Oct 2013
Talk on magnetocaloric research
von Moos, L. (Speaker)
30 Sep 2013
Activity: Talks and presentations › Conference presentations

Computational screening of mixed metal halide ammines
Jensen, P. B. (Lecturer)
17 Sep 2013
Activity: Talks and presentations › Conference presentations

From magnetocaloric materials to magnetic refrigeration devices
Bahl, C. (Invited speaker)
10 Sep 2013
Activity: Talks and presentations › Conference presentations

Electrochemical reduction of CO2 and H2O into fuels: Cell types and kinetic barriers
Mogensen, M. B. (Keynote speaker)
9 Sep 2013
Activity: Talks and presentations › Conference presentations

Functional dependent errors in DFT calculations for Li-air batteries
Christensen, R. (Speaker)
9 Sep 2013
Activity: Talks and presentations › Conference presentations

Materials Predictors and Genetic Algorithms for Design of Nanoparticle Activity and Stability
Vegge, T. (Invited speaker)
3 Sep 2013 → 7 Sep 2013
Activity: Talks and presentations › Conference presentations

1st International PhD Summer School
Bowen, J. R. (Lecturer)
28 Aug 2013
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

1st Workshop in Prof. John Irvine's EPSRC Platform project
Mogensen, M. B. (Invited speaker)
28 Aug 2013
Activity: Talks and presentations › Conference presentations

1st International PhD Summer School
Teocoli, F. (Participant)
26 Aug 2013 → 31 Aug 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

1st PhD summer school
Le, T. H. (Participant)
26 Aug 2013 → 30 Aug 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The challenges in going from magnetocaloric materials to magnetic refrigeration devices
Bahl, C. (Invited speaker)
29 Jul 2013
Activity: Talks and presentations › Conference presentations
Eurotech participants meeting  
Corazza, M. (Speaker)  
17 Jul 2013  
Activity: Talks and presentations › Conference presentations

Solid Oxide Fuel Cell Promise, Progress, and Priorities Workshop  
Mogensen, M. B. (Invited speaker)  
11 Jul 2013  
Activity: Talks and presentations › Conference presentations

32nd International Conference on Thermoelectrics  
Le, T. H. (Participant)  
30 Jun 2013 → 4 Jul 2013  
Activity: Attending an event › Participating in or organising a conference

Materials for energy storage – screening and evolution  
Vegge, T. (Invited speaker)  
25 Jun 2013 → 30 Jun 2013  
Activity: Talks and presentations › Conference presentations

Computational screening and design of energy materials – navigating vast phase spaces  
Vegge, T. (Invited speaker)  
24 Jun 2013 → 28 Jun 2013  
Activity: Talks and presentations › Conference presentations

Arthur S. Nowick Memorial Symposium  
Mogensen, M. B. (Invited speaker)  
7 Jun 2013  
Activity: Talks and presentations › Conference presentations

Reversible solid oxide cells: limitations and possibilities  
Mogensen, M. B. (Invited speaker)  
4 Jun 2013  
Activity: Talks and presentations › Conference presentations

10th Pacific Rim Conference on Ceramic and Glass Technology  
Teocoli, F. (Participant)  
2 Jun 2013 → 7 Jun 2013  
Activity: Attending an event › Participating in or organising a conference

Sintering of Ceramics  
Teocoli, F. (Participant)  
1 Jun 2013 → 2 Jun 2013  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Inorganic Chemistry (Journal)  
Van Nong, N. (Reviewer)  
May 2013  
Activity: Research › Peer review of manuscripts

Sustainable fuels from renewable energy  
Mogensen, M. B. (Lecturer)  
22 May 2013  
Activity: Talks and presentations › Conference presentations
Seminar Activity in Politecnico di Torino
Mogensen, M. B. (Invited speaker)
21 May 2013
Activity: Talks and presentations › Conference presentations

9th International Symposium on Hysteresis Modelling and Micromagnetics
von Moos, L. (Speaker)
13 May 2013 → 15 May 2013
Activity: Talks and presentations › Conference presentations

Journal of Alloys and Compounds (Journal)
Van Nong, N. (Reviewer)
Apr 2013
Activity: Research › Peer review of manuscripts

Materials Research Bulletin (Journal)
Van Nong, N. (Reviewer)
Apr 2013
Activity: Research › Peer review of manuscripts

International Energy Agency
Blanchard, D. (Speaker)
21 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

The 5th Fundamentals and Developments of Fuel Cells Conference 2013
Mogensen, M. B. (Invited speaker)
17 Apr 2013
Activity: Talks and presentations › Conference presentations

Identifying Ways to Improve the Efficiency of Magnetocaloric Devices
Bahl, C. (Organizer)
15 Apr 2013 → 19 Apr 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Identifying Ways to Increase the Efficiency of Magnetocaloric Devices
von Moos, L. (Speaker)
15 Apr 2013 → 19 Apr 2013
Activity: Talks and presentations › Conference presentations

Using biofuels for SOFC
Hagen, A. (Invited speaker)
13 Apr 2013
Activity: Talks and presentations › Conference presentations

Electrolysis and CO2-Recycling for Production of Green Fuels
Linderoth, S. (Lecturer)
9 Apr 2013
Activity: Talks and presentations › Conference presentations

Workshop on Electrolysis and CO2-Recycling for Production of Green Fuels
Mogensen, M. B. (Organizer)
9 Apr 2013 → 11 Apr 2013
Activity: Attending an event › Participating in or organising a conference
Workshop on Electrolysis and CO2-Recycling for Production of Green Fuels
Mogensen, M. B. (Speaker)
9 Apr 2013
Activity: Talks and presentations › Conference presentations

Computational screening of mixed metal halide ammines
Jensen, P. B. (Lecturer)
8 Apr 2013
Activity: Talks and presentations › Conference presentations

Collaboration between DTU and Topsoe Fuel Call
Linderoth, S. (Lecturer)
20 Mar 2013
Activity: Talks and presentations › Conference presentations

Renewable Energy Technologies: Possible Collaboration Between Denmark and Japan
Linderoth, S. (Speaker)
9 Mar 2013
Activity: Talks and presentations › Conference presentations

Electronic Materials Letters (Journal)
Van Nong, N. (Reviewer)
Feb 2013
Activity: Research › Peer review of manuscripts

Department of Energy Conversion and Storage
Linderoth, S. (Lecturer)
26 Feb 2013
Activity: Talks and presentations › Conference presentations

3rd Magnetism National Conference
von Moos, L. (Participant)
20 Feb 2013 → 22 Feb 2013
Activity: Attending an event › Participating in or organising a conference

Nanostructured materials for solid-state hydrogen storage – WG4: Computational modeling
Vegge, T. (Invited speaker)
25 Jan 2013
Activity: Talks and presentations › Conference presentations

The Importance of Nano Science in Energy Technologies
Linderoth, S. (Lecturer)
22 Jan 2013 → 23 Jan 2013
Activity: Talks and presentations › Conference presentations

PALSfit; website: palsfit.dk: A computer code for analysing positron annihilation lifetime spectra.
Eldrup, M. M. (Participant)
1 Jan 2013 → …
Activity: Other

Advanced Materials (Journal)
Van Nong, N. (Reviewer)
2012
Activity: Research › Peer review of manuscripts
American Physical Society (External organisation)
Ngo, D. (Participant)
2012 → ...
Activity: Membership › Membership of research networks or expert groups

Applied Physics Letters (Journal)
Ngo, D. (Reviewer)
2012 → 2014
Activity: Research › Peer review of manuscripts

PhD thesis Alfred Samson: Censor
Hagen, A. (External examiner)
2012
Activity: Examinations and supervision › External examination

Self assembled dimers of metallic nano-particles for enhanced light harvesting in organic solar cells
Pastorelli, F. (Speaker)
2012 → ...
Activity: Talks and presentations › Conference presentations

Strategy Group (External organisation)
Hagen, A. (Participant)
2012 → 2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Ergebnisse aus Langzeittests von Einzelzellen
Hagen, A. (Lecturer)
Dec 2012
Activity: Talks and presentations › Conference presentations

Design, Modeling and Optimization of Thermoelectrical Power Generation Devices
Pryds, N. (External examiner)
10 Dec 2012
Activity: Examinations and supervision › External examination

Nordic Conference on Ceramic and Glass Technology
Teocoli, F. (Participant)
6 Dec 2012 → 7 Dec 2012
Activity: Attending an event › Participating in or organising a conference

Computational Screening of Mixed Metal Halide Ammines
Jensen, P. B. (Lecturer)
4 Dec 2012
Activity: Talks and presentations › Conference presentations

6th International Workshop on Advanced Materials Science and Nanotechnology
Van Nong, N. (Keynote speaker)
Nov 2012
Activity: Talks and presentations › Conference presentations
Degradation of state-of-the-art SOFC in hydrogen and carbon containing fuels
Hagen, A. (Invited speaker)
Nov 2012
Activity: Talks and presentations › Conference presentations

2012 MRS Fall Meeting & Exhibit
Pryds, N. (Organizer)
25 Nov 2012 → 30 Nov 2012
Activity: Attending an event › Participating in or organising a conference

Electrolysis and biomass hand-in-hand
Linderoth, S. (Lecturer)
15 Nov 2012
Activity: Talks and presentations › Conference presentations

Oxides in Environment-friendly Technologies
Pryds, N. (Invited speaker)
3 Nov 2012
Activity: Talks and presentations › Conference presentations

Final SERC Technical-Scientific Meeting
Blennow Tullmar, P. (Speaker)
1 Nov 2012
Activity: Talks and presentations › Conference presentations

Ceramics International (Journal)
Van Nong, N. (Reviewer)
Oct 2012 → …
Activity: Research › Peer review of manuscripts

6th International Workshop on Advanced Materials Science and Nanotechnology
Le, T. H. (Speaker)
30 Oct 2012 → 2 Nov 2012
Activity: Talks and presentations › Conference presentations

6th International Workshop on Advanced Materials Science and Nanotechnology
Van Nong, N. (Speaker)
30 Oct 2012 → 2 Nov 2012
Activity: Talks and presentations › Conference presentations

6th International Workshop on Advanced Materials Science and Nanotechnology
Van Nong, N. (Speaker)
30 Oct 2012 → 2 Nov 2012
Activity: Talks and presentations › Conference presentations

6th International Workshop on Advanced Materials Science and Nanotechnology
Van Nong, N. (Invited speaker)
30 Oct 2012 → 2 Nov 2012
Activity: Talks and presentations › Conference presentations

Brændselceller og brint
Linderoth, S. (Lecturer)
24 Oct 2012
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities
**Mixed Rare Earth-Fe-B sintered magnets**
Bahl, C. (Lecturer)
24 Oct 2012
Activity: Talks and presentations › Conference presentations

**International Symposium on Metal-Hydrogen Systems - Fundamentals and Applications -**
Blanchard, D. (Participant)
Activity: Attending an event › Participating in or organising a conference

**Metal Borohydrides for Hydrogen Storage: A Review**
Blanchard, D. (Invited speaker)
21 Oct 2012
Activity: Talks and presentations › Conference presentations

**Department of Energy Conversion and Storage**
Linderoth, S. (Lecturer)
17 Oct 2012
Activity: Talks and presentations › Conference presentations

**Solid oxide electrochemical cells – energy converters, gas separators, gas sensors**
Mogensen, M. B. (Lecturer)
14 Oct 2012
Activity: Talks and presentations › Conference presentations

**SERC Workshop**
Linderoth, S. (Speaker)
8 Oct 2012
Activity: Talks and presentations › Conference presentations

**Computational investigations of the electronic transport in lithium-air battery materials**
Vegge, T. (Speaker)
7 Oct 2012 → 12 Oct 2012
Activity: Talks and presentations › Conference presentations

**Istituto Nazionale di Ricerca Metrologica**
von Moos, L. (Visiting researcher)
1 Oct 2012 → 17 Dec 2012
Activity: Visiting an external institution › Visiting another research institution

**Journal of Electronic Materials (Journal)**
Van Nong, N. (Reviewer)
Sep 2012 → …
Activity: Research › Peer review of manuscripts

**Pure and Applied Chemistry (Journal)**
Van Nong, N. (Reviewer)
Sep 2012 → …
Activity: Research › Peer review of manuscripts

**Solid State Electrochemistry Applied to Solid Oxide Fuel and Electrolysis Cells**
Hagen, A. (Invited speaker)
Sep 2012
Activity: Talks and presentations › Conference presentations
Alkaline Electrolysis Cells: Materials, Properties and Challenges
Mogensen, M. B. (Lecturer)
25 Sep 2012
Activity: Talks and presentations › Conference presentations

History of Thermodynamics of Electrolysis
Mogensen, M. B. (Lecturer)
25 Sep 2012
Activity: Talks and presentations › Conference presentations

5th IIF-IIR International Conference on Magnetic Refrigeration at Room Temperature
Bahl, C. (Speaker)
18 Sep 2012
Activity: Talks and presentations › Conference presentations

5th IIF-IIR International Conference on Magnetic Refrigeration at Room Temperature
Engelbrecht, K. (Speaker)
18 Sep 2012
Activity: Talks and presentations › Conference presentations

Development and Experimental Results from a 1kW Prototype AMR
Bahl, C. (Invited speaker)
18 Sep 2012
Activity: Talks and presentations › Conference presentations

5th IIF-IIR International Conference on Magnetic Refrigeration at Room Temperature
von Moos, L. (Speaker)
17 Sep 2012 → 20 Sep 2012
Activity: Talks and presentations › Conference presentations

ESS Science Symposium
Blanchard, D. (Participant)
17 Sep 2012 → 19 Sep 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

3rd CARISMA International Conference on Medium and High Temperature Proton Exchange Membrane Fuel Cells
Linderoth, S. (Speaker)
3 Sep 2012
Activity: Talks and presentations › Conference presentations

Årsmøde 2013 i Dansk Batteriselskab
Højberg, J. (Organizer)
1 Sep 2012 → 1 Mar 2013
Activity: Attending an event › Participating in or organising a conference

SUNCAT Center for Interface Science and Catalysis
Vegge, T. (Visiting researcher)
1 Sep 2012 → 30 Nov 2012
Activity: Visiting an external institution › Visiting another research institution

Vacuum (Journal)
Van Nong, N. (Reviewer)
Aug 2012 → …
Activity: Communication › Peer review of manuscripts
Computational Design of Materials for Energy Storage
Vegge, T. (Invited speaker)
11 Aug 2012 → 17 Aug 2012
Activity: Talks and presentations › Conference presentations

Reversible Lithium-Air Batteries
Vegge, T. (Lecturer)
10 Aug 2012
Activity: Talks and presentations › Conference presentations

In situ XRPD studies of Li intercalation in graphite in working Li-ion batteries: Session: MS13 - Energy related materials
Johnsen, R. E. (Lecturer)
6 Aug 2012 → 11 Aug 2012
Activity: Talks and presentations › Conference presentations

A Materials Science Perspective on the Mechanics of Sintering
Bjørk, R. (Lecturer)
20 Jul 2012
Activity: Talks and presentations › Conference presentations

12th International Conference on Inorganic Membrane
Engelbrecht, K. (Speaker)
13 Jul 2012
Activity: Talks and presentations › Conference presentations

31st International & 10th European Conference on Thermoelectrics
Han, L. (Speaker)
11 Jul 2012
Activity: Talks and presentations › Conference presentations

31st International & 10th European Conference on Thermoelectrics
Le, T. H. (Participant)
9 Jul 2012
Activity: Attending an event › Participating in or organising a conference

Plasma Sheath Lenses - Principles and applications
Stamate, E. (Invited speaker)
2 Jul 2012 → 6 Jul 2012
Activity: Talks and presentations › Conference presentations

European Fuel Cell Forum 2012
Hauch, A. (Participant)
30 Jun 2012 → 3 Jul 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

European Fuel Cell Forum 2012
Blennow Tullmar, P. (Speaker)
27 Jun 2012 → 29 Jun 2012
Activity: Talks and presentations › Conference presentations

Rotational and translational diffusion in materials for energy storage from QENS and DFT calculations
Vegge, T. (Invited speaker)
25 Jun 2012 → 29 Jun 2012
Activity: Talks and presentations › Conference presentations
Computational techniques for efficient design of nanoparticles and complex materials for energy storage
Vegge, T. (Lecturer)
13 Jun 2012 → 18 Jun 2012
Activity: Talks and presentations › Conference presentations

Development of SOEC Cells and Stacks: Highlights, Challenges and future Perspectives
Kiebach, W. (Keynote speaker)
5 Jun 2012
Activity: Talks and presentations › Conference presentations

Department of Energy Conversion and Storage
Linderoth, S. (Lecturer)
May 2012
Activity: Talks and presentations › Conference presentations

SOFC Durability under Realistic Operation
Hagen, A. (Lecturer)
May 2012
Activity: Talks and presentations › Conference presentations

SYMPOSIUM Water Electrolysis and Hydrogen as Part of the Future Renewable Energy System
Hagen, A. (Organizer)
May 2012
Activity: Attending an event › Participating in or organising a conference

Werkstofffragen der Hochtemperatur-Brennstoffzelle (SOFC): Riso/Topsoe SOFC Aktivitäten
Hagen, A. (Lecturer)
May 2012
Activity: Talks and presentations › Conference presentations

42nd Danish Crystallographic Meeting and 5th DanScatt Meeting
Johnsen, R. E. (Participant)
31 May 2012 → 1 Jun 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

European Materials Research Society 2012
Han, L. (Participant)
30 May 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

FIB Damage and Polishing in 3DEBSD of ceramic materials
Bowen, J. R. (Speaker)
24 May 2012
Activity: Talks and presentations › Conference presentations

European Materials Research Society 2012
Le, T. H. (Participant)
14 May 2012
Activity: Attending an event › Participating in or organising a conference

SYMPOSIUM Water Electrolysis and Hydrogen as Part of the Future Renewable Energy System
Bowen, J. R. (Participant)
10 May 2012 → 11 May 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Metal-supported Solid Oxide Fuel Cells: Next generation SOFCs?: Invited talk
Blennow Tullmar, P. (Speaker)
30 Mar 2012
Activity: Talks and presentations › Conference presentations

4th User Meeting at the FRM II
Blanchard, D. (Participant)
23 Mar 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Reconstructions at complex oxide Interfaces
Pryds, N. (External examiner)
23 Mar 2012
Activity: Examinations and supervision › External examination

Tohoku University
Sveinbjörnsson, D. Þ. (Visiting researcher)
4 Mar 2012 → 24 Mar 2012
Activity: Visiting an external institution › Visiting another research institution

Nanostructured materials for solid-state hydrogen storage - MPNS COST Action MP1103
Jensen, P. B. (Participant)
13 Feb 2012 → 15 Feb 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Thermoelectric Oxide Materials for Heat Recovery
Pryds, N. (Lecturer)
9 Feb 2012
Activity: Talks and presentations › Conference presentations

Durability of Solid Oxide Fuel Cells and Solid Oxide Electrolysis Cells: Status and Challenges
Hagen, A. (Invited speaker)
Jan 2012
Activity: Talks and presentations › Conference presentations

European Fuel Cell Forum (External organisation)
Hagen, A. (Participant)
Jan 2012 → Jun 2012
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Ph.D. defense Rahimullah Sarban: "Active control using DEAP transducers"
Sommer-Larsen, P. (External examiner)
30 Jan 2012
Activity: Examinations and supervision › External examination

Studienævn DTU Energi (External organisation)
Hauch, A. (Chairman)
1 Jan 2012 → 31 Dec 2020
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
Annual Meeting International Energy Agency (IEA) Annex 24 (Solid Oxide Fuel Cells) (External organisation)
Hagen, A. (Participant)
2011 → 2015
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

PhD Thesis Alfred Samson
Hagen, A. (Internal examiner)
2011 → Apr 2012
Activity: Examinations and supervision › Internal examination

Thin Solid Films (Journal)
Ngo, D. (Reviewer)
2011 → 2014
Activity: Research › Peer review of manuscripts

2nd International Workshop on Degradation Issues of Fuel Cells
Hagen, A. (Participant)
Sep 2011
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Assessing durability of SOFC stacks
Hagen, A. (Lecturer)
Sep 2011
Activity: Talks and presentations › Conference presentations

Journal of Alloys and Compounds (Journal)
Van Nong, N. (Reviewer)
Sep 2011 → …
Activity: Research › Journal editor

Proton conductivity – mechanisms and materials
Li, Q. (Lecturer)
16 Aug 2011 → 17 Aug 2011
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Troisième Cycle Seminar in Villars
Han, L. (Participant)
14 Aug 2011 → 18 Aug 2011
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Troisième Cycle Seminar in Villars
Le, T. H. (Participant)
14 Aug 2011 → 18 Aug 2011
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Durability and degradation of SOFCs – Where are we?
Hagen, A. (Lecturer)
May 2011
Activity: Talks and presentations › Conference presentations

University of New South Wales
Bowen, J. R. (Visiting researcher)
1 Mar 2011 → 31 May 2011
Activity: Visiting an external institution › Visiting another research institution
5th International Symposium Hydrogen & Energy
Blanchard, D. (Participant)
23 Jan 2011 → 28 Jan 2011
Activity: Attending an event › Participating in or organising a conference

European Association for Storage of Energy – EASE (External organisation)
Pedersen, A. S. (Participant)
1 Jan 2011 → 31 Dec 2017
Activity: Membership › Board duties in companies, associations, or public organisations

European Energy Research Alliance, Joint Programme on Energy Storage (External organisation)
Pedersen, A. S. (Participant)
1 Jan 2011 → 1 Jan 2018
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Heavy ions doping coupled with metallic nanoinclusions: An effective way to improve the thermoelectric performance of p-type layered cobalt oxide materials: 30th International Conference on Thermoelectrics-ICT2011
Van Nong, N. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Recent Progress in Nanostructured Oxide TE Materials for Power Generation at High Temperatures: "Workshop on Advanced Materials Science and Nanotechnology"
Van Nong, N. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Recent Progress in Nanostructured Thermoelectric Oxide Materials at Risø DTU: Workshop on Nanothermoelectrics
Van Nong, N. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Design and fabrication of broadband anti-reflection sub-wavelength periodic structure for solar cells
Pastorelli, F. (Speaker)
2010 → …
Activity: Talks and presentations › Conference presentations

Ngo, D. (Reviewer)
2010 → 2014
Activity: Research › Peer review of manuscripts

A New Active Magnetic Regeneration (AMR) Prototype
Engelbrecht, K. (Invited speaker)
16 Nov 2010
Activity: Talks and presentations › Conference presentations

Oxygen permeation and chemical reactivity of alkaline earth doped cobaltite perovskites for membrane applications: VII Brazilian Electroceramics Symposium
Esposito, V. (Invited speaker)
26 Oct 2010
Activity: Talks and presentations › Conference presentations

UDTU Education in University Teaching at DTU
Hauch, A. (Participant)
2 Aug 2010 → 30 Jul 2011
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Symposium on Metal-Hydrogen Systems
Blanchard, D. (Participant)
19 Jul 2010 → 23 Jul 2010
Activity: Attending an event › Participating in or organising a conference

Cimtec 2010
Lauritzen, H. (Speaker)
18 Jun 2010
Activity: Talks and presentations › Conference presentations

EERA Joint Programme on Energy Storage (External organisation)
Pedersen, A. S. (Participant)
1 Jan 2010
Activity: Membership › Membership of research networks or expert groups

Udstilling med plastsolceller
Damgaard Nielsen, T. (Speaker)
1 Jan 2009
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Institute of Physics (External organisation)
Ngo, D. (Participant)
2008 → …
Activity: Membership › Membership of research networks or expert groups

DESIGN OF THE ELECTROCERAMICS FOR SOLID OXIDE FUEL CELL APPLICATIONS: PLAYING WITH CERIA: Nanotechnology: Controlled Processing of Nanoparticle Structures and Composites
Esposito, V. (Invited speaker)
7 Oct 2008
Activity: Talks and presentations › Conference presentations

European Fuel Cell Forum (External organisation)
Hagen, A. (Participant)
Dec 2007 → Jun 2008
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Influence of Sintering on Electrochemical Properties of Nanocrystalline Doped-Ceria: F5 - Nanostructured Metal Oxides: Processing and Applications
Esposito, V. (Invited speaker)
2 Nov 2006
Activity: Talks and presentations › Conference presentations

Prizes:

4th International DHC+ Student Awards - 1st prize
Dominik Franjo Dominkovic (Recipient), Mar 2016
Prize: Prizes, scholarships, distinctions

August-Wilhelm Scheer Visiting Professorship@TUM
Tejs Vegge (Recipient), 2016
Prize: Prizes, scholarships, distinctions
Best Poster Award at the Sustain 2017
Gisele Alves dos Reis Benatto (Recipient), Nicholas Riedel (Recipient), Claire Mantel (Recipient), Sune Thorsteinsson (Recipient), Peter Behrensdorff Poulsen (Recipient), Søren Forchhammer (Recipient), Kenn H. B. Frederiksen (Recipient), Jan Vedde (Recipient), Harsh Parikh (Recipient), Sergiu Spataru (Recipient) & Dezso Sera (Recipient), 6 Dec 2017
Prize: Prizes, scholarships, distinctions

Elite-Forsk-rejsestipendium (EliteForsk travel grant)
Dominik Franjo Dominkovic (Recipient), 23 Feb 2017
Prize: Prizes, scholarships, distinctions

Ellen and Hans Hermers Award 2015
Tejs Vegge (Recipient), 26 Jan 2015
Prize: Prizes, scholarships, distinctions

Member of the Danish Academy of Technical Sciences (ATV)
Tejs Vegge (Recipient), May 2014
Prize: Prizes, scholarships, distinctions

PhD Supervisor the year 2017
Tejs Vegge (Recipient), 27 Oct 2017
Prize: Prizes, scholarships, distinctions

Third Price EFC17 Best Paper Awards
Søren Højgaard Jensen (Recipient), Hendrik Langnickel (Recipient), Nils Hintzen (Recipient), Ming Chen (Recipient), Xiufu Sun (Recipient), Anne Hauch (Recipient), Giacomo Butera (Recipient) & Lasse Røngaard Clausen (Recipient), 13 Dec 2017
Prize: Prizes, scholarships, distinctions

Press clippings:

Nyt batteri kan oplades på ét minut og give 800 km rækkevidde
Tejs Vegge
16/11/2017
1 media contribution
Press / Media

The Race to Build Better Batteries
Tejs Vegge
01/11/2017
1 media contribution
Press / Media

Sådan får du dit batteri til at holde længere
Tejs Vegge
24/10/2017
1 media contribution
Press / Media

Elektriske fly
Tejs Vegge
16/06/2017
1 media contribution
Press / Media

Rumforskning: Han skal sikre astronauter en returbillet fra Mars
Christopher R. Graves
Batterirevolutionen lader vente på sig
Tejs Vegge
03/05/2017
1 media contribution
Press / Media

Mercedes satser stort på produktion af højeffektive batterier
Tejs Vegge
27/04/2017
1 media contribution
Press / Media

Ny kemi i batterier øger muligheden for at lagre grøn energi
Tejs Vegge
20/02/2017
1 media contribution
Press / Media

Dørfor fryser din mobil sig selv ihjel i kulden
Tejs Vegge
07/01/2017
1 media contribution
Press / Media

Ingeniøren - Året Rundt 2016: Lang vej til nye batteriteknologier
Tejs Vegge
31/12/2016
1 media contribution
Press / Media

DHC+ newsletter: Interview with Dominik Franjo Dominkovic, winner of the 4th International DHC+ Student Awards
Dominik Franjo Dominkovic
10/10/2016
1 media contribution
Press / Media

Ekspert: Samsungs brandfarlige batterier er bekymrende
Tejs Vegge
11/09/2016
1 media contribution
Press / Media

Millionærklubben
Tejs Vegge
04/05/2016
1 media contribution
Press / Media

Skimmelsvamp gør batterier bedre?
Tejs Vegge
17/04/2016
1 media contribution
Press / Media
Energirevolutionen er lige om hjørnet
Tejs Vegge
08/03/2016
1 media contribution
Press / Media

Bliver batterier ikke snart bedre?
Tejs Vegge
03/03/2016
1 media contribution
Press / Media

Bill Gates forgylder tre energiteknologier
Tejs Vegge
04/12/2015
1 media contribution
Press / Media

Bill Gates med energi nummer 1: Flowbatterier
Tejs Vegge
04/12/2015
1 media contribution
Press / Media

Bill Gates med energi nummer 1: Flowbatterier
Tejs Vegge
03/12/2015
1 media contribution
Press / Media

Batterier der virkelig batter
Tejs Vegge
27/10/2015
1 media contribution
Press / Media

So ein Ding: Solstrøm og Megabatterier
Tejs Vegge
25/10/2015
1 media contribution
Press / Media

Efter TESLA: Danske forskere giver deres bud på fremtidens energilagring
Tejs Vegge
18/07/2015
1 media contribution
Press / Media

Fremtidens Energiforsyning
Tejs Vegge
15/06/2015
1 media contribution
Press / Media

På falderebet: Siemens ude af el-færgeprojekt
Tejs Vegge
Hjemmekraftværk rammer tidens ånd
Tejs Vegge
04/05/2015
1 media contribution
Press / Media

Nyt batteri kan forsyne dit hus med strøm
Tejs Vegge
01/05/2015
1 media contribution
Press / Media

Forbedring af batterier er et langt, sejt træk
Tejs Vegge
17/04/2015
1 media contribution
Press / Media

Højlunds Helte: Tre DTU'ers løsninger på fremtidens problemer med CO2
Anne Hauch
15/03/2015
1 media contribution
Press / Media

Article in ComputerWorld (DK)
Michael Corazza
02/01/2015
1 media contribution
Press / Media

Nyt flowbatteri har lovende fremtid
Tejs Vegge
23/06/2014
1 media contribution
Press / Media

Elektrokemi kan ændre vædning mellem metal og keramik: Forskere på DTU Energikonvertering har opdaget, at elektrokemi kan ændre vædningen mellem metal og keramik.
Janet Jonna Bentzen
01/01/2014
1 media contribution
Press / Media

Strom & Gas Synergie
Anke Hagen
01/01/2013
1 media contribution
Press / Media

Smill Du er på. http://emagstudio.win.dtu.dk/E-books/DTU-Avisen/DTUavis0112/#/20/
Anastasia Aleksandrovna Permyakova
01/01/2012
1 media contribution
Press / Media