Publications:

2D hole gas seen
Publication: Research › Comment/debate – 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

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
Publication: Research - peer-review › Journal article – Annual report year: 2018

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 : E C S Transactions. 85, 4, p. 25-32
Publication: Research - peer-review › Journal article – Annual report year: 2018
Critical current density in \((\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta})_{1-x}-(\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta})_x\) 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 \((\text{K},\text{Na})\text{NbO}_3\) films on flexible metal substrates
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

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 LaMnO$_3$ 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-TiO$_2$ catalysts
Effects of accelerated degradation on metal supported thin film-based solid oxide fuel cell

Effects of Zr Doping on Magnetic and Structural Properties of DyBa2Cu3O 7−δ Thin Films

Elastocaloric effect vs fatigue life: Exploring the durability limits of Ni-Ti sheets under pre-strain conditions for elastocaloric cooling

Electrochemical performances of LiNi1−xMnxPO4 (x=0.05–0.2) olivine cathode materials for high voltage rechargeable lithium ion batteries

Electrochemical probing into the active sites of graphitic-layer encapsulated iron oxygen reduction reaction electrocatalysts

Energy storage innovation challenge

Enhanced visible light catalytic activity of MoS2/TiO2/Ti photocathode by hybrid-junction

Enzyme Immobilization on Inorganic Surfaces for Membrane Reactor Applications: Mass Transfer Challenges, Enzyme Leakage and Reuse of Materials

Evaluation of electrodeposited Mn-Co protective coatings on Crofer 22 APU steel

Experimental and numerical comparison of multi-layered La(Fe,Si,Mn)13Hx active magnetic regenerators
Integration of a magnetocaloric heat pump in a low-energy residential building
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: Research - 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

Localized carbon deposition in solid oxide electrolysis cells studied by multiphysics modeling
Navasa, M., Frandsen, H. L., Skafte, 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

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

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. & Kalaivani, R. A. 2018 In : Journal of Materials Science: Materials in Electronics. 29, 8, p. 6763-6770
Publication: Research - peer-review › Journal article – Annual report year: 2018

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 LaCoO₂₋δ oxygen membrane under an oxygen potential gradient
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)₀.₉₈Fe₀.₄₋₀.₈₈(Sc₀.₅O₃₋₀.₉₅)(Ce₀.₉₋₀.₉₅)Ce₀.₅₋₀.₇₀Gd₀.₁₂₋₀.₉₅O₁.₉₅ Dual-Phase Composites
Publication: Research - peer-review › Journal article – Annual report year: 2018

Performance and stability of (Zr₀.₀₂(Sc₂O₃)₀.₀₁(Y₂O₃)₀.₉₈)₀.₀₂(La₁₋₀.₁₀Cr₁₋₀.₈₅Cu₀.₁₀Ni₀.₁₀O₂₋ₐ)ₐ oxygen transport membranes under conditions relevant for oxy-fuel combustion
Publication: Research - peer-review › Journal article – Annual report year: 2018

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
Publication: Research - peer-review › Journal article – Annual report year: 2018

P-type Al-doped Cr-deficient CrN thin films for thermoelectrics
Publication: Research - peer-review › Journal article – Annual report year: 2018
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

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

Sintering of MnCo2O4 coatings prepared by electrophoretic deposition

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

Stoichiometric control in Bi4Ti3O12 synthesis by novel hybrid solid state reaction
Gadea, C., Phatharapeetranun, 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., Qureishy, T., Wu, W., Zhang, Z., Mikheenko, P., Johansen, T. H. & Grivel, J-C. 2018 In : Acta Materialia. 144, p. 844-852

Studies of A-site Deficient (Gd0.6Sr0.4)1–sFe0.8Co0.2O3–δ Cathodes in SOFCs
Hansen, K. K. 2018 In : Fuel Cells. 18, 1, p. 96-100

57Fe Mössbauer spectroscopy and electrochemical activities of graphitic layer encapsulated iron electrocatalysts for the oxygen reduction reaction

Synthesis and stability of strongly acidic benzamide derivatives

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
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

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

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
Krebs, F. C. 16 Mar 2017
Publication: Research › Patent – Annual report year: 2017

Durable fuel electrode
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

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: 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
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
Anisotropic Proton and Oxygen Ion Conductivity in Epitaxial Ba$_2$In$_2$O$_5$ Thin Films
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Novel SOFC/SOEC Sealing Glass with a Low SiO$_2$ Content and a High Thermal Expansion Coefficient
Publication: Research - peer-review › Conference article – Annual report year: 2017

A Physically-Based Equivalent Circuit Model for the Impedance of a LiFePO$_4$/Graphite 26650 Cylindrical Cell
Publication: Research - peer-review › Journal article – Annual report year: 2017

Application of numerical inverse method in calculation of composition-dependent interdiffusion coefficients in finite diffusion couples
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

Assembly Modulated by Particle Position and Shape: A New Concept in Self-Assembly
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
Bismuth phosphates as intermediate temperature proton conductors: From polycrystalline powders to amorphous glasses
Huang, Y., Christensen, E., Shuai, Q. & Li, Q. 2017 In : International Journal of Hydrogen Energy. 42, 10, p. 7235-7240

Bottom-Up Design of a Copper-Ruthenium Nanoparticulate Catalyst for Low-Temperature Ammonia Oxidation

Business Model and Replication Study of BIG HIT

Carbazole-based copolymers via direct arylation polymerization (DArP) for Suzuki-convergent polymer solar cell performance
Gobalasingham, N. S., Ekiz, S., Pankow, R. M., Livi, F., Bundgaard, E. & Thompson, B. C. 2017 In : Polymer Chemistry. 8, 30, p. 4393-4402

Carbon deposition and sulfur poisoning during CO2 electrolysis in nickel-based solid oxide cell electrodes
Skafte, T. I., Blennow, P., Hjelm, J. & Graves, C. R. 2017 In : Journal of Power Sources. 373, p. 54-60

Cathode-supported hybrid direct carbon fuel cells

Cathodic protection of all-solid-state LiS batteries by magnetron sputtering with lithium phosphorous oxynitride

Ceramic processing of tubular, multilayered oxygen transport membranes (Invited)
Bjørnetun Haugen, A., Ovtar, S., Gurauskis, J., Kaiser, A., Kiebach, W-R. & Hendriksen, P. V. 2017

Challenges and Possibilities of EIS on PEMEC

Charge transport and structure in semimetallic polymers

Chemical and Electrochemical Properties of La0.58Sr0.4Fe0.8Co0.2O3-δ (LSCF) Thin Films upon Oxygen Reduction and Evolution Reactions
Chemical and Electrochemical Properties of $\text{La}_{0.58}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ (LSCF) Thin Films upon Oxygen Reduction and Evolution Reactions
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

Chemical Production of Graphene Catalysts for Electrochemical Energy Conversion
Publication: Research › Ph.D. thesis – Annual report year: 2018

Chemical solution deposition on textured metal substrates: Enabling sustainability with large-scale and flexible functional thin films
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Coarsening of carbon black supported Pt nanoparticles in hydrogen
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of iron and copper doped manganese cobalt spinel oxides as protective coatings for solid oxide fuel cell interconnects
Publication: Research - peer-review › Journal article – Annual report year: 2017

Components and materials for electrochemical energy conversion (KDFuelCell)

Computational High-throughput Screening for Solar Energy Materials
Publication: Research › Book chapter – Annual report year: 2017

Computational Study of Nb-Doped-SnO$_2$/Pt Interfaces: Dopant Segregation, Electronic Transport, and Catalytic Properties
Publication: Research - peer-review › Journal article – Annual report year: 2017

Concentration Impedance in Testing of Solid Oxide Cells Revisited
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Concentration Impedance in Testing of Solid Oxide Cells Revisited
Publication: Research - peer-review › Journal article – Annual report year: 2017
Conductive, transparent and low emissivity coatings of aluminum doped zinc oxide produced by magnetron sputtering
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Cone-Shaped Gd₁₋ₓSrxFe₀.₈Co₀.₂O₃₋δ Electrodes for SOFC Cathodes
Kammer Hansen, K. 2017 In : International Journal of Electrochemical Science. 12, 12, p. 11540-11545
Publication: Research - peer-review › Letter – Annual report year: 2017

Conjugated Polymers Via Direct Arylation Polymerization in Continuous Flow: Minimizing the Cost and Batch-to-Batch Variations for High-Throughput Energy Conversion
Gobalasingham, N. S., Carlé, J. E., Krebs, F. C., Thompson, B. C., Bundgaard, E. & Helgesen, M. 2017 In : Macromolecular Rapid Communications. 38, 22, 7 p., 1700526
Publication: Research - peer-review › Journal article – Annual report year: 2017

Continuous Hydrothermal Flow Synthesis of Functional Oxide Nanomaterials for Energy Conversion Devices
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Continuous Hydrothermal Flow Synthesis of Functional Oxide Nanomaterials Used in Energy Conversion Devices
Publication: Research › Ph.D. thesis – Annual report year: 2017

Controlled atmosphere high-temperature scanning probe microscopy (CAHT-SPM)
Hansen, K. V. 2017 Metal Oxide-Based Thin Film Structures: Formation, Characterization and Application of Interface-Based Phenomena. Elsevier, Ch. 9, p. 203-223
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Controlling the Carrier Density of SrTiO₃-Based Heterostructures with Annealing
Publication: Research - peer-review › Journal article – Annual report year: 2017

Correction: Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO₂ and CH₄
Publication: Research › Comment/debate – Annual report year: 2017

Correction to Creation of High Mobility Two-Dimensional Electron Gases via Strain Induced Polarization at an Otherwise Nonpolar Complex Oxide Interface
Publication: Research › Comment/debate – Annual report year: 2017

Corrigendum to "Model for solid oxide fuel cell cathodes prepared by infiltration" [Electrochim. Acta 229 (March (1)) (2017) 73-95]
Publication: Research - peer-review › Journal article – Annual report year: 2017

Cost-competitiveness of organic photovoltaics for electricity self-consumption at residential buildings: A comparative study of Denmark and Greece under real market conditions
Coupling between creep and redox behavior in nickel - yttria stabilized zirconia observed in-situ by monochromatic neutron imaging

Cross-flow heat exchanger design using thermofluid topology optimization

Decisive Intermediates Responsible for the Carbonaceous Products of CO₂ Electro-reduction on Nitrogen-Doped sp² Nanocarbon Catalysts in NaHCO₃ Aqueous Electrolyte

Design, enhanced Thermal and Flow efficiency of a 2KW active magnetic regenerator

Design of oxide electrocatalysts for efficient conversion of CO₂ into liquid fuels

Determination of the bonding strength in solid oxide fuel cells' interfaces by Schwickerath crack initiation test
Boccaccini, D. N., Sevecek, O., Frandsen, H. L., Dlouhy, I., Molin, S., Charlas, B., Hjelm, J., Cannio, M. & Hendriksen, P. V. 2017 In : Journal of the European Ceramic Society. 37, 11, p. 3565-3578

Determination of the Resistance of Cone-Shaped Solid Electrodes

Development and Performance of Zirconia Based Oxygen Transport Membranes for Carbon Capture Processes

Development of Dual-Phase Oxygen Transport Membranes for Carbon Capture Processes

Development of novel High Temperature and Pressure Alkaline Electrolysis Cells (HTP-AEC)

Development of outdoor luminescence imaging for drone-based PV array inspection
Effect of Sr-doping of LaMnO3 spacer on modulation-doped two-dimensional electron gases at oxide interfaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts
Publication: Research - peer-review › Journal article – Annual report year: 2017

Efficient p-n junction-based thermoelectric generator that can operate at extreme temperature conditions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electric Field-Assisted Pressureless Sintering of Ceramic Protonic Conductors
Muccillo, R., Esposito, V., de Florio, D. Z. & Muccillo, E. N. S. 2017 In : E C S Transactions. 80, 9, p. 111-118
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electric Field-Assisted Pressureless Sintering of Ceramic Protonic Conductors
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

Electrocatalysis caught in the act
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Electrocatalytic conversion of biomass-derived chemicals in alkaline electrochemical cell
Publication: Research › Conference abstract for conference – Annual report year: 2017

Electrochemical Characterization of a PEMEC Using Impedance Spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electrochemical Reduction of CO2 on Compositionally Variant Au-Pl Bimetallic Thin Films
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electrochemical Reduction of CO2 on Ir Ru (110) Surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electrochemical Study of (La0.6Sr0.4)0.99CoO3−δ Thin Film Microelectrodes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Embedded plasmonic nanoparticles in high refractive index TiOx matrix for photovoltaics applications
Pastorelli, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Encapsulated iron-based oxygen reduction electrocatalysts by high pressure pyrolysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energy modelling towards low carbon development of Beijing in 2030
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energy supply modelling of a low-CO 2 emitting energy system: Case study of a Danish municipality
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enhanced densification of thin tape cast Ceria-Gadolinium Oxide (CGO) layers by rheological optimization of slurries
Publication: Research - peer-review › Journal article – Annual report year: 2017

Environmental impacts of electricity self-consumption from organic photovoltaic battery systems at industrial facilities in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2017

Error Mitigation in Computational Design of Sustainable Energy Materials
Publication: Research › Ph.D. thesis – Annual report year: 2017

Estimation of current constriction losses via 3D tomography reconstructions in electrochemical devices: a case study of a solid oxide cell electrode/electrolyte interface
Publication: Research - peer-review › Journal article – Annual report year: 2017

Evolution of concentration fluctuation during phase separation of polystyrene/poly (vinyl methyl ether) blend in the presence of nanosilica
Publication: Research - peer-review › Journal article – Annual report year: 2017

Experimental Determination of the Formation Enthalpy of Calcium Cobaltate from Sol–Gel Precursors
Publication: Research - peer-review › Journal article – Annual report year: 2016

Ex-situ tracking solid oxide cell electrode microstructural evolution in a redox cycle by high resolution ptychographic nanotomography
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fe-Ni Nanoparticles: A Multiscale First-Principles Study to Predict Geometry, Structure, and Catalytic Activity
Publication: Research - peer-review › Journal article – Annual report year: 2017
Ferromagnetic Two-Dimensional Electron Gases at the Interface between Two Oxide Insulators
Chen, Y. 2017
Publication: Research › Conference abstract for conference – Annual report year: 2017

From 3D to 2D Co and Ni Oxyhydroxide Catalysts: Elucidation of the Active Site and Influence of Doping on the Oxygen Evolution Activity
Publication: Research - peer-review › Journal article – Annual report year: 2017

Gel Electrolytes of Covalent Network Polybenzimidazole and Phosphoric Acid by Direct Casting
Kirkebaek, A., Alli, D., Henkensmeier, D., Jensen, J. O. & Li, Q. 2017 In : Macromolecular Materials and Engineering. 302, 12, 7 p., 1700347
Publication: Research - peer-review › Journal article – Annual report year: 2017

Giant Electrostriction in highly defective oxides: The next generation of electromechanical materials.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Giant onsite electronic entropy enhances the performance of ceria for water splitting
Publication: Research - peer-review › Journal article – Annual report year: 2017

Glass transition of poly (methyl methacrylate) filled with nanosilica and core-shell structured silica
Publication: Research - peer-review › Journal article – Annual report year: 2017

Guest Editorial
Publication: Research - peer-review › Journal article – Annual report year: 2017

Helbredstjek af dansk sundhedsteknologi: Sektorudviklingsrapport
Publication: Commissioned › Report – Annual report year: 2017

High definition in-situ electro-optical characterization for Roll to Roll printed electronics
Pastorelli, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Highly Conformal Ni Micromesh as a Current Collecting Front Electrode for Reduced Cost Si Solar Cell
Publication: Research - peer-review › Journal article – Annual report year: 2017

Highly porous CeO2 nanostructures prepared via combustion synthesis for supercapacitor applications
High Mobility Two-dimensional Electron Gases at Complex Oxide Interfaces
Chen, Y. 2017 Metal Oxide-Based Thin Film Structures. 1 ed. Elsevier, Ch. 9, 17 p.
Publication: Research › Book chapter – Annual report year: 2017

High performance LaNi1-xCoxO3 (x = 0.4 to 0.7) infiltrated oxygen electrodes for reversible solid oxide cells
Publication: Research › Journal article – Annual report year: 2017

High throughput in situ scattering of roll-to-roll coated functional polymer films
Publication: Research › Book chapter – Annual report year: 2017

How covalence breaks adsorption-energy scaling relations and solvation restores them
Publication: Research › Journal article – Annual report year: 2017

Hydrogen Decrepitation Press-Less Process Recycling of NdFeB sintered magnets
Publication: Research › Journal article – Annual report year: 2017

In situ electrical and thermal monitoring of printed electronics by two-photon mapping
Publication: Research › Journal article – Annual report year: 2017

Impact of Prosumers and their Clusters on the Energy System
Larma, M., Heller, A. & Pedersen, A. S. 2017
Publication: Research › Poster – Annual report year: 2017

Improved performance of LaNi0.6Fe0.4O3 solid oxide fuel cell cathode by application of a thin interface cathode functional layer
Publication: Research › Journal article – Annual report year: 2017

Improving, characterizing and predicting the lifetime of organic photovoltaics: Topical Review
Publication: Research › Journal article – Annual report year: 2017

Indoor measurement of angle resolved light absorption by antireflective glass in solar panels
Publication: Research › Article in proceedings – Annual report year: 2017

Indoor Measurement of Angle Resolved Light Absorption by Black Silicon
Publication: Research › Article in proceedings – Annual report year: 2017
Infiltrated La$_{0.4}$Sr$_{0.4}$Fe$_{0.03}$Ni$_{0.03}$Ti$_{0.94}$O$_3$ based anodes for all ceramic and metal supported solid oxide fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Influence of carbon monoxide on the cathode in high-temperature polymer electrolyte membrane fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Influence of magnetization on the applied magnetic field in various AMR regenerators
Publication: Research - peer-review › Journal article – Annual report year: 2017

Influence of Substrate-Film Reactions on YBCO Grown by Fluorine-Free MOD Route
Publication: Research - peer-review › Journal article – Annual report year: 2017

Influence of yttria surface modification on high temperature corrosion of porous Ni22Cr alloy
Publication: Research - peer-review › Journal article – Annual report year: 2018

Initiative Towards Non-Precious Metal Polymer Fuel Cells (NonPrecious)
Publication: Research › Conference abstract for conference – Annual report year: 2017

In-line, roll-to-roll morphology analysis of organic solar cell active layers
Publication: Research - peer-review › Journal article – Annual report year: 2017

In operando Raman spectroscopy for investigation of solid oxide electrolysis cells
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

In Operando Raman spectroscopy for investigation of solid oxide electrolysis cells
Traulsen, M. L., Walker, R. A. & Holtappels, P. 2017
Publication: Research › Poster – Annual report year: 2017

In operando studies of an yttria stabilized zirconia electrolyte supported symmetric solid oxide cell by Dark field X-ray Microscopy at ID06
Publication: Research › Poster – Annual report year: 2018

In operando studies of an yttria stabilized zirconia electrolyte supported symmetric solid oxide cell by Dark field X-ray Microscopy at ID06
Publication: Research › Conference abstract for conference – Annual report year: 2018

In operando studies of ScYSZ electrolyte supported symmetric solid oxide cell by X-ray Diffraction at ESRF, ID06 Beamline
In operando study of high-performance thermoelectric materials for power generation: a case study of β-Zn₄Sb₃

Inside or Outside? Linking Outdoor and Indoor Lifetime Tests of ITO-Free Organic Photovoltaic Devices for Greenhouse Applications

In-situ formed Ce₀.8Gd₀.2O₁.₉barrier layers on yttria stabilized zirconia backbones by infiltration - A promising path to high performing oxygen electrodes of solid oxide cell

In Situ Formed Phosphoric Acid/Phosphosilicate Nanoclusters in the Exceptional Enhancement of Durability of Polybenzimidazole Membrane Fuel Cells at Elevated High Temperatures

In situ TEM analysis of a symmetric solid oxide cell in oxygen and vacuum–cation diffusion observations

In situ TEM study of the coarsening of carbon black supported Pt nanoparticles in hydrogen

In situ TEM analysis of a symmetric solid oxide cell in oxygen and vacuum–cation diffusion observations

In situ TEM study of the coarsening of carbon black supported Pt nanoparticles in hydrogen

In situ TEM study of the coarsening of carbon black supported Pt nanoparticles in hydrogen

Integration of district cooling in smart energy systems: the case of Singapore

Intrinsic Conductivity in Magnesium-Oxygen Battery Discharge Products: MgO and MgO2

In situ TEM analysis of a symmetric solid oxide cell in oxygen and vacuum–cation diffusion observations

Investigating phase behavior and structural changes in NiO/Co-YSZ composite with monochromatic in-situ 2D and static 3D neutron imaging

Investigation of a Spinel-forming Cu-Mn Foam as an Oxygen Electrode Contact Material in a Solid Oxide Cell Single Repeating Unit
Investigation of Cu$_2$ZnSnS$_4$ nanoparticles for thin-film solar cell applications

(Invited) Oxygen Exchange Kinetics on Technological Versus Model Type Electrodes

Ion-Exchange-Induced Selective Etching for the Synthesis of Amino-Functionalized Hollow Mesoporous Silica for Elevated-High-Temperature Fuel Cells

Ionic/Electronic Conductivity, Thermal/Chemical Expansion and Oxygen Permeation in Pr and Gd Co-Doped Ceria Pr$_x$Gd$_{1-x}$Ce$_{1.9}$O$_{3.4}$

Is γ-Al$_2$O$_3$ polar?

Jahn-Teller and Non-Jahn-Teller Systems Involving CuF$_6^{2-}$ Units: Role of the Internal Electric Field in Ba$_2$ZnF$_6$:Cu$^{2+}$ and Other Insulating Systems

Large Differences in the Optical Spectrum Associated with the Same Complex: The Effect of the Anisotropy of the Embedding Lattice

Lattice constant measurement from electron backscatter diffraction patterns

Lead-free, textured piezoelectric ceramics

Life cycle production of hydrogen from water electrolysis

Life-Cycle Assessment of Solar Charger with Integrated Organic Photovoltaics
Lifetime limiting effects in pre-commercial solid oxide cell devices
Publication: Research › Ph.D. thesis – Annual report year: 2017

Lithium-Oxygen Batteries: At a Crossroads?
Vegge, T., García Lastra, J. M. & Siegel, D. J. 2017 In : Current Opinion in Electrochemistry. 6, 1, p. 100-107
Publication: Research › Journal article – Annual report year: 2017

Long-term durability of HT-PEM fuel cells based on thermally crosslinked polybenzimidazole
Publication: Research › Journal article – Annual report year: 2017

Long-term Testing of Solid Oxide Electrolysis Cells under Co-Electrolysis Conditions
Publication: Research › Conference article in journal – Annual report year: 2017

Low surface damage dry etched black silicon
Publication: Research › Journal article – Annual report year: 2017

Low Temperature Synthesis and Properties of Gadolinium-Doped Cerium Oxide Nanoparticles
Machado, M. F. S., Moraes, L. P. R., Monteiro, N. K., Esposito, V., Florio, D. Z. D., Marani, D. & Fonseca, F. C. 2017 In : ECS Transactions. 80, 9, p. 57-69
Publication: Research › Conference article – Annual report year: 2017

Low Temperature Synthesis and Properties of Gadolinium-Doped Cerium Oxide Nanoparticles
Publication: Research › Conference abstract in journal – Annual report year: 2017

Luminescence Imaging Strategies for Drone-Based PV Array Inspection
Publication: Research › Article in proceedings – Annual report year: 2017

Magnetic two-dimensional electron gas at the manganite-buffered LaAlO3/SrTiO3 interface
Publication: Research › Journal article – Annual report year: 2017

Materials for Catalysis, Synthetic Fuels and Chemical Energy Conversion
Publication: Research › Conference abstract in proceedings – Annual report year: 2017
Publication: Research - peer-review › Journal article – Annual report year: 2017

Mid-IR optical properties of silicon doped InP

Model for solid oxide fuel cell cathodes prepared by infiltration
Samson, A. J., Søgaard, M. & Hendriksen, P. V. 2017 In : Electrochimica Acta. 229, p. 73-95

Modeling a material from packing, through sintering and to the final microstructural properties
Bjørk, R. & Nielsen, K. K. 2017

Modeling of Ni Diffusion Induced Austenite Formation in Ferritic Stainless Steel Interconnects

Model of Organic Solar Cell Photocurrent Including the Effect of Charge Accumulation at Interfaces and Non-Uniform Carrier Generation

Molecular dynamics simulation of radiation grafted FEP films as proton exchange membranes: Effects of the side chain length

Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused-Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster

Multiphase oxygen electrodes for solid oxide electrolysis cells
Tripkovic, D., Hendriksen, P. V. & Mogensen, M. B. 2017

Nanostructured Materials: Enhancing the Thermoelectric Performance

Near-net shape manufacture of B₄C–Co and ZrC–Co composites by slip casting and pressureless sintering
Ortiz, A. L., Leal, V. M. C., Morenc, R. & Guiberteau, F. 2017 In : Journal of the European Ceramic Society. 37, 15, p. 4577-4584

New Light Source Setup for Angle Resolved Light Absorption measurement of PV sample
Novel materials for more robust solid oxide fuel cells in small scale applications
Holtappels, P. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

NOx Selective Catalytic Reduction (SCR) on Self-Supported V-W-doped TiO2 Nanofibers
Publication: Research - peer-review › Journal article – Annual report year: 2017

Nucleophilic stabilization of water-based reactive ink for titania-based thin film inkjet printing
Publication: Research - peer-review › Journal article – Annual report year: 2017

Numerical routine for magnetic heat pump cascading
Filonenko, K., Lei, T., Engelbrecht, K., Bahl, C. & Veje, C. 2017
Publication: Research - peer-review › Poster – Annual report year: 2017

On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid Oxide Fuel Cell Cathodes
Publication: Research - peer-review › Journal article – Annual report year: 2017

On the way towards smart energy supply in cities: The impact of interconnecting geographically distributed district heating grids on the energy system
Publication: Research - peer-review › Journal article – Annual report year: 2017

Operational test of bonded magnetocaloric plates
Publication: Research - peer-review › Journal article – Annual report year: 2017

Operation of real landfill gas fueled solid oxide fuel cell (SOFC) using internal dry reforming
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Orientation-Dependent Oxygen Evolution on RuO2 without Lattice Exchange
Publication: Research - peer-review › Journal article – Annual report year: 2017

Overcoming the Scaling Lag for Polymer Solar Cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Oxygen Permeation and Stability Study of (La0.6Ca0.4)(0.98)(Co0.8Fe0.2)O3-δ Membranes: Alternative title; Oxygen permeation and stability study of (La0.6Ca0.4)(0.98)(Co0.8Fe0.2)O3-δ membranes
Publication: Research - peer-review › Journal article – Annual report year: 2017
Oxygen transport properties of tubular Ce$_{0.9}$Gd$_{0.1}$O$_{1.95}$-La$_{0.6}$Sr$_{0.4}$FeO$_{3-d}$ composite asymmetric oxygen permeation membranes supported on magnesium oxide
Publication: Research - peer-review › Journal article – Annual report year: 2017

PALSfit3: A software package for analysing positron lifetime spectra
Publication: Research › Report – Annual report year: 2017

Passive characterization and active testing of epoxy bonded regenerators for room temperature magnetic refrigeration
Publication: Research - peer-review › Journal article – Annual report year: 2017

Passive heat transfer enhancement in 3D corrugated tube
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Pd Nanoparticles-Supported Carbon Nanotube-Encapsulated NiO/MgO Composite as an Enhanced Electrocatalyst for Ethanol Electrooxidation in Alkaline Medium
Mahendiran, C., Rajesh, D., Maiyalagan, T. & Kadivelayutham, P. 2017 In : ChemistrySelect. 2, 35, p. 11438–11444
Publication: Research - peer-review › Journal article – Annual report year: 2017

Performance and electrochemical analysis of solid oxide fuel cells based on LSCF-YSZ nano-electrode
Publication: Research - peer-review › Journal article – Annual report year: 2017

Performance Improvement of an Inhomogeneous Cathode by Infiltration
Publication: Research - peer-review › Journal article – Annual report year: 2017

Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells
Andersen, K. B., Charlas, B., Stamate, E. & Kammer Hansen, K. 2017 In : Heliyon. 3, 22 p., e00371
Publication: Research - peer-review › Journal article – Annual report year: 2017

Phonon thermal conductivity of scandium nitride for thermoelectrics from first-principles calculations and thin-film growth
Publication: Research - peer-review › Journal article – Annual report year: 2017

Plasma and catalyst for the oxidation of NOx
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Potential- and Rate-Determining Step for Oxygen Reduction on Pt(111)
Publication: Research - peer-review › Journal article – Annual report year: 2017

Potential for dynamic pricing in district heating systems in Denmark and Finland
Potential of district cooling in hot and humid climates

Potential Of Waste Heat And Waste Cold Energy Recovery In Singapore For District Cooling Applications: Impacts On Energy System

Pressurized reversible operation of a 30-cell solid oxide cell stack using carbonaceous gases

Printed organic smart devices characterized by nonlinear optical

Printed organic smart devices characterized by ultra-short laser pulses
Pastorelli, F. 2017

Probing phosphoric acid redistribution and anion migration in polybenzimidazole membranes
Becker, H., Cleemann, L. N., Alli, D., Jensen, J. O. & Li, Q. 2017 In : Electrochemistry Communications. 82, p. 21-24

Production and Reliability Oriented SOFC Cell and Stack Design

Production and Reliability Oriented SOFC Cell and Stack Design

Progress of SOFC/SOEC Development at DTU Energy: From Materials to Systems

Pulsed Laser Deposition of YBa2Cu3Ox with Scanning Beam: Target to Substrate Composition Transfer and Film Structure

Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-% -efficiency
Cazzaniga, A. C., Canulescu, S., Ettlinger, R. B., Pryds, N., Hansen, O., Schou, J., Crovetto, A., Hansen, O., Yan, C., Sun, K. & Hao, X. 2017
Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-% -efficiency

Quality Assurance of Solid Oxide Fuel Cell (SOFC) and Electrolyser (SOEC) Stacks

Quantification of solar cell failure signatures based on statistical analysis of electroluminescence images

Quasi-Elastic Neutron Scattering Studies on Solid Electrolytes for solid state Lithium Batteries
Blanchard, D., Myrdal, J. S. G., Sveinbjörnsson, D. Þ. & Vegge, T. 2017

Radical production efficiency and electrical characteristics of a coplanar barrier discharge built by multilayer ceramic technology

Reduction of the thermal conductivity of the thermoelectric material ScN by Nb alloying

Relation Between Ni Particle Shape Change and Ni Migration in Ni–YSZ Electrodes – a Hypothesis

Releasing cation diffusion in self-limited nanocrystalline defective ceria thin films

Reply to "Comment on 'Performance of Halbach magnet with finite coercivity'

Revison of the qualification framework at the Technical University of Denmark Part 2: Applications

Role of the Band Gap for the Interaction Energy of Coadsorbed Fragments
Scavenging of oxygen vacancies at modulation-doped oxide interfaces: Evidence from oxygen isotope tracing
Publication: Research - peer-review › Journal article – Annual report year: 2017

Screening the electrochemical activity of transition metal nanoparticles for SOFC anode infiltration
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Secondary creep of porous metal supports for solid oxide fuel cells by a CDM approach
Publication: Research - peer-review › Journal article – Annual report year: 2017

SOFC Operation with Real Biogas
Publication: Research - peer-review › Journal article – Annual report year: 2017

Solder free joining as a highly effective method for making contact between thermoelectric materials and metallic electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Solid-state lithium sulfur batteries using nanoconfined complex hydrides as solid electrolytes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Spatially resolved modelling of inhomogeneous materials with a first order magnetic phase transition
Publication: Research - peer-review › Journal article – Annual report year: 2017

Spray pyrolysis of doped-ceria barrier layers for solid oxide fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Stability and performance of robust dual-phase (ZrO$_2$)$_{0.89}$(Y$_2$O$_3$)$_{0.01}$(Sc$_2$O$_3$)$_{0.10}$Al$_{0.02}$Zn$_{0.98}$O$_{1.01}$ oxygen transport membranes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Stability of V$_2$O$_5$ Supported on Titania in the Presence of Water, Bulk Oxygen Vacancies, and Adsorbed Oxygen Atoms
Publication: Research - peer-review › Journal article – Annual report year: 2017

Status report on high temperature fuel cells in Poland – Recent advances and achievements
Publication: Research - peer-review › Journal article – Annual report year: 2017

Strategies to design materials for electrochemical energy conversion and storage technologies
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Structural evolution during calcination and sintering of a (La0.6Sr0.4)0.99CoO3-δ nanofiber prepared by electrospinning
Simonsen, S. B., Shao, J. & Zhang, W. A. 2017 In : Nanotechnology. 28, 26, 7 p., 265402
Publication: Research - peer-review › Journal article – Annual report year: 2017

Study of geometries of active magnetic regenerators for room temperature magnetocaloric refrigeration
Publication: Research - peer-review › Journal article – Annual report year: 2016

Study of Operating Parameters for Accelerated Anode Degradation in SOFCs
Publication: Research - peer-review › Journal article – Annual report year: 2017

Subsolidus Phase Relations of the CoOx-CuO-SrO System
Grivel, J-C. 2017 In : Journal of Phase Equilibria and Diffusion. 38, 5, p. 646-655
Publication: Research - peer-review › Journal article – Annual report year: 2017

SUN HUB – ENERGY HUB FOR OUTDOOR TABLES
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Suppressed carrier density for the patterned high mobility two-dimensional electron gas at γ-Al2O3/SrTiO3 heterointerfaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Surface characterization of coated cathodes with lithium phosphorous oxynitride thin film for all-solid-state Li-S batteries
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Surface defects on the Gd2Zr2O7 oxide films grown on textured NiW technical substrates by chemical solution method
Publication: Research - peer-review › Journal article – Annual report year: 2017

Surface-Initiated Atom Transfer Radical Polymerization from Electrospun Mats: An Alternative to Nafion
Publication: Research - peer-review › Journal article – Annual report year: 2016

Sustainable future alternatives to petroleum-based polymeric conservation materials
Publication: Research › Article in proceedings – Annual report year: 2018
Synthesis of conjugated polymers with complex architecture for photovoltaic applications
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Testing of Electrodes, Cells and Short Stacks
Publication: Research - peer-review › Book chapter – Annual report year: 2016

The Atomic Simulation Environment - A Python library for working with atoms
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Effect of Electrical Polarization on Electronic Structure in LSM Electrodes: An Operando XAS, RIXS and XES Study
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Effect of Nano-TiC Addition on Sintered Nd-Fe-B Permanent Magnets
Publication: Research - peer-review › Journal article – Annual report year: 2017

The effect of tapering on a magnetocaloric regenerator bed
Publication: Research - peer-review › Journal article – Annual report year: 2017

The future of transportation in sustainable energy systems: Opportunities and barriers in a clean energy transition
Publication: Research - peer-review › Journal article – Annual report year: 2017

The influence of carbon and oxygen on the magnetic characteristics of press-less sintered NdFeB magnets
Publication: Research - peer-review › Journal article – Annual report year: 2016

The La(Fe,Mn,Si)13Hx magnetic phase transition under pressure
Publication: Research - peer-review › Journal article – Annual report year: 2017

The maximum theoretical performance of unconcentrated solar photovoltaic and thermoelectric generator systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

The promise of negative emissions
Lackner, K. S., Aines, R., Atkins, S., Barrett, S., Barteau, M., Braun, R. J., Brouwer, J., Broecker, W., Browne, J. B. & Graves, C. R. 2017 In : Science. 354, 6313, p. 714
Publication: Research - peer-review › Letter – Annual report year: 2017
Thermal behavior and decomposition of cerium(III) butanoate, pentanoate and hexanoate salts upon heating in argon
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermal operating window for PEDOT:PSS films and its related thermoelectric properties
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermodynamic assessment of the oxygen reduction activity in aqueous solutions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermodynamic Ground States of Complex Oxide Heterointerfaces
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermofluid topology optimization of heat sinks
Haertel, J. H. K., Lei, T., Alexandersen, J., Engelbrecht, K., Lazarov, B. S. & Sigmund, O. 2017
Publication: Research › Poster – Annual report year: 2017

Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Thermoneutral Operation of Solid Oxide Electrolysis Cells in Potentiostatic Mode
Publication: Research - peer-review › Journal article – Annual report year: 2017

The role of CO* as a spectator in CO₂ electro-reduction on RuO₂
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thickness-Dependent Properties of YBCO Films Grown on GZO/CLO-Buffered NiW Substrates
Publication: Research - peer-review › Journal article – Annual report year: 2016

Three-dimensional graphene anchored Fe₃O₄@C core-shell nanoparticles as supercapacitor electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Topology optimization and lattice Boltzmann methods
Publication: Research › Ph.D. thesis – Annual report year: 2018

Topology optimization of heat exchangers and heat sinks
Haertel, J. H. K., Lei, T., Alexandersen, J., Engelbrecht, K., Lazarov, B. S. & Sigmund, O. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Topology optimized permanent magnet systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

Toward a drone-based EL and PL inspection tool for PV power plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards a stable ion-solvating polymer electrolyte for advanced alkaline water electrolysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards High Power Density Metal Supported Solid Oxide Fuel Cell for Mobile Applications
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Towards High Power Density Metal Supported Solid Oxide Fuel Cell for Mobile Applications
Nielsen, J., Persson, A. H., Muhl, T. & Brodersen, K. 2017 In : ECS Transactions. 78, 1, p. 2029-2037
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards identifying the active sites on RuO$_2$(110) in catalyzing oxygen evolution
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards long-term stable solid state electrolyzers with infiltrated catalysts
Ovtar, S., Chen, M., Brodersen, K., Hauch, A., Sun, X., Bentzen, J. J. & Hendriksen, P. V. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Towards solid oxide electrolysis plants in 2020
Chen, M., Blennow, P., Mathiesen, B. V. & Zhang, Z. 2017
Publication: Research › Poster – Annual report year: 2018

Tracking Solid Oxide Cell Microstructure Evolution by High Resolution 3D Nano-Tomography
Publication: Research › Ph.D. thesis – Annual report year: 2017

Transient deformational properties of high temperature alloys used in solid oxide fuel cell stacks
Tadesse Molla, T., Kwok, K. & Frandsen, H. L. 2017 In : Journal of Power Sources. 351, p. 8-16
Publication: Research - peer-review › Journal article – Annual report year: 2017

Transportable Device for Transference of Atmosphere Sensitive Materials from Glove Box to High Resolution Scanning Electron Microscope
Publication: Research › Poster – Annual report year: 2017

Transportable Device for Transference of Atmosphere Sensitive Materials from Glove Box to High Resolution Scanning Electron Microscope
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Transport and excitations in a negative-U quantum dot at the LaAlO₃/SrTiO₃ interface
Publication: Research - peer-review › Journal article – Annual report year: 2017

Tuning the ground state of polar LaAlO₃/SrTiO₃ interface by an electron sink
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Tuning the two-dimensional electron liquid at oxide interfaces by buffer-layer-engineered redox reactions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Two-Dimensional Electron Gases at Modulation-doped Oxide Interfaces
Publication: Research › Conference abstract for conference – Annual report year: 2017

Two-Dimensional Electron Gases at Modulation-doped Oxide Interfaces
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Ultrasensitive binder-free glucose sensors based on the pyrolysis of in situ grown Cu MOF
Publication: Research - peer-review › Journal article – Annual report year: 2017

Ultra-thin Cu2ZnSnS4 solar cell by pulsed laser deposition
Publication: Research - peer-review › Journal article – Annual report year: 2017

Understanding the Capacitance of PEDOT:PSS
Publication: Research - peer-review › Journal article – Annual report year: 2017

Undervisere: Her er de fem største problemer med studenterevalueringer
Publication: Communication › Comment/debate – Annual report year: 2017

Ung forse: Slip ph.d.-uddannelsen fri
Sørensen, T. J., Bjørk, R., Zinner, N. T., Dalsgaard, P., Niss, K. & Jauffred, L. 2017 20.06.2017, Altinget.dk
Publication: Communication › Comment/debate – Annual report year: 2017

Unique Crystal Orientation of Poly(ethylene oxide) Thin Films by Crystallization Using a Thermal Gradient
Publication: Research - peer-review › Journal article – Annual report year: 2017
Universality of electron mobility in LaAlO$_3$/SrTiO$_3$ and bulk SrTiO$_3$
Publication: Research - peer-review › Journal article – Annual report year: 2017

Unlocking the Electro catalytic Activity of Chemically Inert Amorphous Carbon-Nitrogen for Oxygen Reduction: Discerning and Refactoring Chaotic Bonds
Publication: Research - peer-review › Journal article – Annual report year: 2017

Using Dark Field X-Ray Microscopy To Study In-Operando Yttria Stabilized Zirconia Electrolyte Supported Solid Oxide Cell
Publication: Research › Conference abstract for conference – Annual report year: 2018

Using ISOS consensus test protocols for development of quantitative life test models in ageing of organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Using ISOS consensus test protocols for development of quantitative life test models in ageing of organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Voltage and Thermally Driven Roll-to-Roll Organic Printed Transistor Made in Ambient Air Conditions
Pastorelli, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Waste to energy plant operation under the influence of market and legislation conditioned changes
Publication: Research - peer-review › Journal article – Annual report year: 2017

When two become one: an insight into 2D conductive oxide interfaces
Pryds, N. & Esposito, V. 2017 In : Journal of Electroceramics. 38, 1, p. 1-23
Publication: Research - peer-review › Journal article – Annual report year: 2016

X-Ray and Raman studies on all-solid-state Li-S batteries built around LiBH$_4$ solid electrolyte
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

X-Ray microtomography studies on all-solid-state Li-S batteries built around LiBH$_4$ solid electrolyte
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Zirconia nano-colloids transfer from continuous hydrothermal synthesis to inkjet printing
Publication: Research - peer-review › Journal article – Annual report year: 2017

Partially fluorinated electrospun proton exchange membranes
Publication: Research › Patent – Annual report year: 2016

Gas sensor with multiple internal reference electrodes and sensing electrodes
Publication: Research › Patent – Annual report year: 2016
Dual-role plasticizer and dispersant for ceramic layers
Foghmoes, S. P. V., Della Negra, M., Klemensen, T. & Brodersen, K. 6 May 2016
Publication: Research › Patent – Annual report year: 2016

Thermoelectric material comprising scandium doped zinc cadmium oxide
Han, L., Pryds, N., Van Nong, N. & Linderoth, S. 7 Apr 2016
Publication: Research › Patent – Annual report year: 2016

Polymer solution, fiber mat, and nanofiber membrane-electrode-assembly therewith, and method of fabricating same
Publication: Research › Patent – Annual report year: 2016

2D vs. 1D Structures at Stepped Si Surfaces and in Organic Molecules
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

3D Mapping Of Density And Crack Propagation Through Sintering Of Catalysis Tablets By X-Ray Tomography
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A Cascading Model Of An Active Magnetic Regenerator System
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Accelerated ceria–zirconia solubilization by cationic diffusion inversion at low oxygen activity
Publication: Research - peer-review › Journal article – Annual report year: 2016

Accelerated creep in solid oxide fuel cell anode supports during reduction
Publication: Research - peer-review › Journal article – Annual report year: 2016

Acid–Base Chemistry and Proton Conductivity
Publication: Research - peer-review › Book chapter – Annual report year: 2016

A contribution to the understanding of the combined effect of nitrogen and boron in grey cast iron
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Active cooling of a down hole well tractor
Publication: Research › Ph.D. thesis – Annual report year: 2016

Active magnetic regenerator refrigeration with rotary multi-bed technology
Publication: Research › Ph.D. thesis – Annual report year: 2016
A Decade of Improvements for Solid Oxide Electrolysis Cells. Long-Term Degradation Rate from 40%/Kh to 0.4 % Kh
Hauch, A., Brodersen, K., Chen, M., Graves, C. R., Jensen, S. H., Jørgensen, P. S., Hendriksen, P. V., Mogensen, M. B.,
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

A Density Functional Theory Study of the Ionic and Electronic Transport Mechanisms in LiFeBO3 Battery Electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2016

A design approach for integrating thermoelectric devices using topology optimization
Publication: Research - peer-review › Journal article – Annual report year: 2016

A detailed study of the hysteresis in La0.67Ca0.33MnO3
429-433
Publication: Research - peer-review › Journal article – Annual report year: 2016

Advanced Materials for High-Temperature PEM Fuel Cells
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Advanced materials for polymer electrolyte membrane fuel cells
and Conversion).
Publication: Research - peer-review › Book chapter – Annual report year: 2016

A high mobility two-dimensional electron gas at the CaZrO3/SrTiO3 heterointerface
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Al-doped ZnO: RF- or DC-sputtering?
Crovetto, A., Ottsen, T., Stamate, E., Kjær, D., Schou, J. & Hansen, O. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

All Metal Organic Deposited High-Tc Superconducting Transition Edge Bolometer on Yttria-Stabilized Zirconia Substrate
Mohajeri, R., Opata, Y. A., Wulff, A. C., Grivel, J-C. & Fardmanesh, M. 2016 In : Journal of Superconductivity and Novel
Publication: Research - peer-review › Journal article – Annual report year: 2016

All-solid-state lithium-sulfur battery based on a nanoconfined LiBH4 electrolyte
Publication: Research - peer-review › Journal article – Annual report year: 2016

Amino-Functional Polybenzimidazole Blends with Enhanced Phosphoric Acid Mediated Proton Conductivity as Fuel Cell
Electrolytes
Aili, D., Javakhishvili, I., Han, J., Jankova Atanasova, K., Pan, C., Hvilsted, S., Jensen, J. O., Bjerrum, N. J. & Li, Q. 2016
In : Macromolecular Chemistry and Physics. 217, 10, p. 1161-1168
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Ag based brazing system with a tunable thermal expansion for the use as sealant for solid oxide cells
Analysis and comparison of different phase shifters for Stirling pulse tube cryocooler
Publication: Research - peer-review › Journal article – Annual report year: 2016

Analysis of diverse direct arylation polymerization (DArP) conditions toward the efficient synthesis of polymers converging with stille polymers in organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Analytical Model for the Influence of Contact Resistance on Thermoelectric Efficiency
Publication: Research - peer-review › Journal article – Annual report year: 2015

A nanoview of battery operation
Publication: Communication › Journal article – Annual report year: 2016

An axisymmetrical non-linear finite element model for induction heating in injection molding tools
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Electrochemical Impedance Spectroscopy Study on the Effects of the Surface- and Solution-Based Mechanisms in Li-O2 Cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Electrochemical Impedance Study of the Capacity Limitations in Na–O2 Cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Organic Mixed Ion–Electron Conductor for Power Electronics
Publication: Research - peer-review › Journal article – Annual report year: 2017

An Organic Mixed Ion–Electron Conductor for Power Electronics
Publication: Research - peer-review › Journal article – Annual report year: 2015

A platinum-free oxygen reduction catalyst by a one-step pyrolysis process
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Approaches to a platinum free oxygen reduction catalyst for PEM fuel cells
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

A regenerative elastocaloric heat pump
Publication: Research - peer-review › Journal article – Annual report year: 2016
Assessment of potential biomass energy production in China towards 2030 and 2050
Publication: Research - peer-review › Journal article – Annual report year: 2016

A stability study of polymer solar cells using conjugated polymers with different donor or acceptor side chain patterns
Publication: Research - peer-review › Journal article – Annual report year: 2016

A systematic approach applied in design of a micro heat exchanger
Publication: Research - peer-review › Journal article – Annual report year: 2015

A TEM study of morphological and structural degradation phenomena in LiFePO4-CB cathodes: Morphological and structural degradation in LiFePO4-CB cathodes
Publication: Research - peer-review › Journal article – Annual report year: 2016

A thermoelectric power generating heat exchanger: Part I – Experimental realization
Publication: Research - peer-review › Journal article – Annual report year: 2016

A thermoelectric power generating heat exchanger: Part II – Numerical modeling and optimization
Publication: Research - peer-review › Journal article – Annual report year: 2016

Attempts at doping indium in MgB2
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Two-Level Undercut-Profile Substrate for Chemical-Solution-Based Filamentary Coated Conductors
Wulff, A. C., Lundeman, J. H., Hansen, J. B., Mishin, O., Yue, Z., Mohajeri, R. & Grivel, J-C. 2016 In : I E E E Transactions on Applied Superconductivity. 26, 3, 4 p., 6601604
Publication: Research - peer-review › Journal article – Annual report year: 2016

A viable electrode material for use in microbial fuel cells for tropical regions
Publication: Research - peer-review › Journal article – Annual report year: 2016

Baselines for Lifetime of Organic Solar Cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

Beneficial Effect of Surface Decorations on the Surface Exchange of Lanthanum Strontium Ferrite and Dual Phase Composites
Ovtar, S., Søgaard, M., Song, J. & Hendriksen, P. V. 2016 In : Electrochemical Society. Meeting Abstracts (Online). MA2016-02
Benefits of Integrating Geographically Distributed District Heating Systems

Biogas Catalytic Reforming Studies on Nickel-Based Solid Oxide Fuel Cell Anodes

Can We Replace Platinum Metals in PEM Fuel Cells and Electrolyzers?

Carbon and Redox Tolerant Infiltrated Oxide Fuel-Electrodes for Solid Oxide Cells

Ceramic tape casting: A review of current methods and trends with emphasis on rheological behaviour and flow analysis

Characterization and modeling of organic (P3HT:PCBM) solar cells as a function of bias and illumination
Characterization of a Planar Solid Oxide Cell Stack Operated at Elevated Pressure
Publication: Research - peer-review » Conference article – Annual report year: 2016

Characterization Of Biaxial Strain Of Poly(L-Lactide) Tubes
Publication: Research - peer-review » Journal article – Annual report year: 2015

Publication: Research › Ph.D. thesis – Annual report year: 2016

Characterization of YBa2Cu3O7−δ Films With Various Porous Structures Grown by Metalorganic Decomposition Route
Yue, Z., Qureishy, T., Mitheenko, P. & Grivel, J-C. 2016 In : IEEE Transactions on Applied Superconductivity. 26, 3, 4 p., 7200204
Publication: Research - peer-review » Journal article – Annual report year: 2016

Classical molecular dynamics and quantum abs-initio studies on lithium-intercalation in interconnected hollow spherical nano-spheres of amorphous Silicon
Publication: Research - peer-review » Journal article – Annual report year: 2015

Coatings for High Temperature Corrosion Protection of Stainless Steels
Talic, B., Molin, S. & Hendriksen, P. V. 2016
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2016

Comparative Indoor and Outdoor Degradation of Organic Photovoltaic Cells via Inter-laboratory Collaboration
Publication: Research - peer-review » Journal article – Annual report year: 2016

Comparative study of PBI Cross Linked Utilizing Agents of Varying Steric Configurations
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

Comparative Study of the Effect of Various Cross Linkers upon Membrane Properties
Publication: Research - peer-review » Poster – Annual report year: 2017

Comparing superconducting and permanent magnets for magnetic refrigeration
Bjørk, R., Nielsen, K. K., Bahl, C. R. H., Smith, A. & Wulff, A. C. 2016 In : A I P Advances. 6, 5, 6 p., 056205
Publication: Research - peer-review » Journal article – Annual report year: 2016

Comparison of the electron work function, hole concentration and exciton diffusion length for P3HT and PT prepared by thermal or acid cleavage
Publication: Research - peer-review » Journal article – Annual report year: 2015
Comparison of ultramicrotomy and focused-ion-beam for the preparation of TEM and STEM cross section of organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

Complementary analysis techniques applied on optimizing suspensions of yttria stabilized zirconia
Publication: Research - peer-review › Journal article – Annual report year: 2016

Complex hydrides as room-temperature solid electrolytes for rechargeable batteries
Publication: Research - peer-review › Journal article – Annual report year: 2016

Comprehensive analysis of TEM methods for LiFePO₄/FePO₄ phase mapping: spectroscopic techniques (EFTEM, STEM-EELS) and STEM diffraction techniques (ACOM-TEM)
Publication: Research - peer-review › Journal article – Annual report year: 2016

Computational efficient thermo-mechanical modelling of interconnects in SOFC stacks including the effect of contact
Tadesse Molla, T., Kwok, K. & Frandsen, H. L. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Conductivity and structure of sub-micrometric SrTiO₃-YSZ composites
Publication: Research - peer-review › Journal article – Annual report year: 2016

Conjugated Polymers for Energy Production: Finding Suitable Candidates for Low Cost Solar Cells
Publication: Research › Ph.D. thesis – Annual report year: 2016

CO Oxidation on the Au₁₅Cu₁₅ Cluster and the Role of Vacancies in the MgO(100) Support
Publication: Research - peer-review › Journal article – Annual report year: 2016

Corrosion behavior of construction materials for ionic liquid hydrogen compressor
Publication: Research - peer-review › Journal article – Annual report year: 2016

Current Constriction at Electrode/Electrolyte Interfaces in Solid Oxide Cell Electrochemical Devices Calculated Via 3D Reconstructions
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Decacyclene Trianhydride at Functional Interfaces: An Ideal Electron Acceptor Material for Organic Electronics
Publication: Research - peer-review › Journal article – Annual report year: 2016
Decoupling Strain and Ligand Effects in Ternary Nanoparticles for Improved ORR Electrocatalysis
Publication: Research - peer-review › Journal article – Annual report year: 2016

Degradation of solid oxide cells during co-electrolysis of steam and carbon dioxide at high current densities
Publication: Research - peer-review › Journal article – Annual report year: 2016

Depth-dependent composition of sputtered ZnO:Al
Crovetto, A., Ottsen, T., Stamate, E., Kjaer, D., Schou, J. & Hansen, O. 2016
Publication: Research - peer-review › Poster – Annual report year: 2016

Descriptors and Thermodynamic Limitations of Electrocatalytic Carbon Dioxide Reduction on Rutile Oxide Surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2016

Design and optimization of porous ceramic supports for asymmetric ceria-based oxygen transport membranes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Determination of Water Vapor Pressure Over Corrosive Chemicals Versus Temperature Using Raman Spectroscopy as Exemplified with 85.5% Phosphoric Acid
Publication: Research - peer-review › Journal article – Annual report year: 2016

Development of a novel rotary magnetic refrigerator
Publication: Research - peer-review › Journal article – Annual report year: 2016

Dry Etching
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Durability Issues and Status of HT-PEM Based on Acid Doped Polybenzimidazoles
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Durability Issues and Status of PBI-Based Fuel Cells
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Ecodesign perspectives of thin-film photovoltaic technologies: A review of life cycle assessment studies
Publication: Research - peer-review › Review – Annual report year: 2016

Economic feasibility of CHP facilities fueled by biomass from unused agriculture land: Case of Croatia
Publication: Research - peer-review › Journal article – Annual report year: 2016
Editorial
Publication: Research - peer-review › Editorial – Annual report year: 2016

Editorial for the special issue life cycle, environmental, ecology and impact analysis of solar technology
Publication: Research - peer-review › Editorial – Annual report year: 2016

Effect of Platinum Group Metal Doping in Magnesium Diboride Wires
Publication: Research - peer-review › Journal article – Annual report year: 2016

Effect of pore formers on properties of tape cast porous sheets for electrochemical flue gas purification
Publication: Research - peer-review › Journal article – Annual report year: 2016

Effect of substrate curvature on Mn-Co-O spinel coatings prepared by electrophoretic deposition for solid oxide fuel cells
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Effects of current stress and thermal storage on polymeric heterojunction P3HT:PCBM solar cell
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Effects of flow balancing on active magnetic regenerator performance
Publication: Research - peer-review › Journal article – Annual report year: 2016

Effects of surface finish and mechanical training on Ni-Ti sheets for elastocaloric cooling
Publication: Research - peer-review › Journal article – Annual report year: 2016

Efficient modeling of metallic interconnects for thermo-mechanical simulation of SOFC stacks: homogenized behaviors and effect of contact
Publication: Research - peer-review › Journal article – Annual report year: 2016

eGOPV introduction and Printed solar cells
Krebs, F. C. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016
Elastic Properties of the Solid Electrolyte Li$_7$La$_3$Zr$_2$O$_{12}$ (LLZO)
Publication: Research - peer-review › Journal article – Annual report year: 2015

Elastocaloric effect of a Ni-Ti plate to be applied in a regenerator-based cooling device
Publication: Research - peer-review › Journal article – Annual report year: 2016

Electric field control of the γ-Al$_2$O$_3$/SrTiO$_3$ interface conductivity at room temperature
Publication: Research - peer-review › Journal article – Annual report year: 2016

Electric field control of the γ-Al$_2$O$_3$/SrTiO$_3$ interface conductivity at room temperature
Publication: Research - peer-review › Journal article – Annual report year: 2016

Electrochemical Characterization of PEMECs Operating at Various Current Densities
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Electrochemical Impedance Spectroscopy on Industrially-Relevant Solid Oxide Electrolyzer Cell Stacks: A Powerful Tool for in-Situ Investigations of Degradation Mechanisms
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Electrochemically Scavenging the Silica Impurities at the Ni-YSZ Triple Phase Boundary of Solid Oxide Cells
Publication: Research - peer-review › Letter – Annual report year: 2016

Electrochemical Reduction of NO$_2$
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Electrochemical removal of NOx using solid oxide cells
Kammer Hansen, K., Traulsen, M. L. & Holtappels, P. 2016
Publication: Research › Conference abstract for conference – Annual report year: 2016

Electrochemical Studies of Corrosion in Liquid Electrolytes for Energy Conversion Applications at Elevated Temperatures
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Electrodeposition of metallic 3D surface-profiles for superconductor tapes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Electronic Structure of Low-Dimensional Carbon Π-Systems
Publication: Research - peer-review › Journal article – Annual report year: 2016

Electron microscopy investigations of changes in morphology and conductivity of LiFePO4/C electrodes
Electro-Oxidative Conversion and Process Intensification of Biomass derived 5-Hydroxymethylfurfural into 2,5-furandicarboxylic acid

Electroreduction of N2 to ammonia at ambient conditions on mononitrides of Zr, Nb, Cr, and V – A DFT guide for experiments

Elucidating Batch-to-Batch Variation Caused by Homocoupled Side Products in Solution-Processable Organic Solar Cells

Elucidating Batch-to-Batch Variation Caused by Homocoupled Side Products in Solution-Processable Organic Solar Cells

Evidence for lattice-polarization-enhanced field effects at the SrTiO3-based heterointerface
Li, Y., R. Zhang, H., Lei, Y., Chen, Y., Pryds, N., Shen, B. & Sun, J. 2016 In : Scientific Reports. 6, 6 p., 22418

Evidence of weak superconductivity at the room-temperature grown LaAlO3/SrTiO3 interface

Evolution of the electrochemical interface in high-temperature fuel cells and electrolyzers

Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200°C

Experimental and theoretical investigation of Cr1-xScxN solid solutions for thermoelectrics
Experimental performance evaluation of sintered Gd spheres packed beds
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Exploring product development possibilities and alternative uses of PV solar cells in Ghana
Publication: Research › Report – Annual report year: 2016

Exploring the efficiency potential for an active magnetic regenerator
Publication: Research - peer-review › Journal article – Annual report year: 2016

Fabrication of doped Titania (TiO2) nanofibers to serve as catalysts in NH3-Selective CatalyticReduction (SCR)
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Fabrication of thin film CZTS solar cells with Pulsed Laser Deposition
Publication: Research › Ph.D. thesis – Annual report year: 2017

Finite Bias Calculations to Model Interface Dipoles in Electrochemical Cells at the Atomic Scale
Publication: Research - peer-review › Journal article – Annual report year: 2016

Flexible ITO-free organic solar cells applying aqueous solution-processed V2O5 hole transport layer: An outdoor stability study
Publication: Research - peer-review › Journal article – Annual report year: 2016

Publication: Research - peer-review › Journal article – Annual report year: 2016

Flow synthesis - the answer to reproducible high-performance conjugated polymers on the scale that R2R processing demands
Helgesen, M. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Formation of copper tin sulfide films by pulsed laser deposition at 248 and 355 nm
Publication: Research - peer-review › Journal article – Annual report year: 2016

From a magnet to a heat pump
Publication: Research - peer-review › Journal article – Annual report year: 2016
Fuel Cells and Electrolyzers. Recent Progress at DTU Energy and the Role in a Sustainable Society
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2016

Functional Independent Scaling Relation for ORR/OER Catalysts
Publication: Research - peer-review » Journal article – Annual report year: 2016

Generating the optimal magnetic field for magnetic refrigeration
Publication: Research - peer-review » Article in proceedings – Annual report year: 2016

Globally Optimal Segmentation of Permanent-Magnet Systems
Publication: Research - peer-review » Journal article – Annual report year: 2016

Graphene layer encapsulated metal nanoparticles as a new type of non-precious metal catalysts for oxygen reduction
Publication: Research - peer-review » Review – Annual report year: 2016

Graphite and PMMA as pore formers for thermoplastic extrusion of porous 3Y-TZP oxygen transport membrane supports
Publication: Research - peer-review » Journal article – Annual report year: 2016

Graphitic Layer Encapsulated Iron Based Non-precious Catalysts for the Oxygen Reduction Reaction
Publication: Research › Ph.D. thesis – Annual report year: 2017

Guanidinium nonaflate as a solid-state proton conductor
Publication: Research - peer-review » Journal article – Annual report year: 2016

High Current Printed Transistor
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2016

High Current Printed Transistor: Roll-to-Roll Manufacture and Thermal Behavior
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2016

High Current Temperature Sensitive Roll-to-Roll Printed Transistor
Pastorelli, F. 2016
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2016

High ionic conductivity in confined bismuth oxide-based heterostructures
Sanna, S., Esposito, V., Christensen, M. & Pryds, N. 2016 In : A P L Materials. 4, 5 p., 121101
Publication: Research - peer-review » Journal article – Annual report year: 2016
Highly Interactive Surfaces on Impregnated electrodes - an in operando Raman Spectroscopy Study
Publication: Research › Conference abstract for conference – Annual report year: 2016

Highly selective NOx reduction for diesel engine exhaust via an electrochemical system
Shao, J., Tao, Y. & Kammer Hansen, K. 2016 In : Electrochemistry Communications. 72, p. 36-40 5 p.
Publication: Research - peer-review › Journal article – Annual report year: 2016

High-performance membrane-electrode assembly with an optimal polytetrafluoroethylene content for high-temperature polymer electrolyte membrane fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

High-Performance Microchannelled Asymmetric Gd0.1Ce0.9O1.95-δ-La0.6Sr0.4FeO3-δ-Based Membranes for Oxygen Separation
Publication: Research - peer-review › Journal article – Annual report year: 2016

High Performance Nano-Ceria Electrodes for Solid Oxide Cells
Publication: Research - peer-review › Conference article – Annual report year: 2016

High Pressure Synthesis of Non-precious Metal ORR Catalysts for Fuel Cells
Li, Q. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

High Temperature Alkaline Electrolysis Cells with Metal Foam Based Gas Diffusion Electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2016

High Temperature and Pressure Alkaline Electrochemical Reactor for Conversion of Power to Chemicals
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

High temperature conductance mapping for correlation of electrical properties with micron-sized chemical and microstructural features
Publication: Research - peer-review › Journal article – Annual report year: 2016

High temperature in operando and in situ spectroscopy on electrified surfaces and interfaces
Publication: Research › Conference abstract for conference – Annual report year: 2016

High temperature polymer electrolyte membrane fuel cells: Approaches, status, and perspectives
Publication: Research - peer-review › Book – Annual report year: 2016

Homogenization of steady-state creep of porous metals using three-dimensional microstructural reconstructions
Publication: Research - peer-review › Journal article – Annual report year: 2016
Hydrogen Sulfide Tolerance in High Temperature PEMFCs
MA2016-02, 1 p., 2813
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

In situ diagnostics of the crystal-growth process through neutron imaging: application to scintillators
Publication: Research - peer-review › Journal article – Annual report year: 2016

In situ time-of-flight neutron imaging of NiO-YSZ anode support reduction under influence of stress
Publication: Research - peer-review › Journal article – Annual report year: 2016

In situ transmission electron microscopy for magnetic nanostructures
Publication: Research - peer-review › Journal article – Annual report year: 2016

In situ X-ray powder diffraction studies of the synthesis of graphene oxide and formation of reduced graphene oxide
Publication: Research - peer-review › Journal article – Annual report year: 2016

In situ X-ray scattering of perovskite solar cell active layers roll-to-roll coated on flexible substrates
Publication: Research - peer-review › Journal article – Annual report year: 2016

Impact of Prosumer Buildings and their Clusters on the Energy System – project outline
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Implementation of Constrained DFT for Computing Charge Transfer Rates within the Projector Augmented Wave Method
Publication: Research - peer-review › Journal article – Annual report year: 2016

Improved electrodes and gas impurity investigations on alkaline electrolyser
Publication: Research - peer-review › Poster – Annual report year: 2016

Improving the Operational Stability of PBDTTTz-4 Polymer Solar Cells Modules by Electrode Modification
Publication: Research - peer-review › Journal article – Annual report year: 2015

Improving the performance of district heating systems by utilization of local heat boosters
Publication: Research - peer-review › Paper – Annual report year: 2017

Incineration of organic solar cells: Efficient end of life management by quantitative silver recovery
Infiltration of SOFC Stacks: Evaluation of the Electrochemical Performance Enhancement and the Underlying Changes in the Microstructure


Influence of pore former on porosity and mechanical properties of Ce0.9Gd0.1O1.95 electrolytes for flue gas purification


Influence of temperature and atmosphere on the strength and elastic modulus of solid oxide fuel cell anode supports


Infrared ellipsometry study of the confined electrons in a high-mobility γ-Al2O3/SrTiO3 heterostructure


In Situ Analysis of the Li-O2 Battery with Thermally Reduced Graphene Oxide Cathode: Influence of Water Addition


In-Situ Formed Ce0.8Gd0.2O1.9 Barrier Layer on Yttria Stabilized Zirconia Back-Bone for Infiltrated Oxygen Electrodes


In-situ, long-term operational stability of organic photovoltaics for off-grid applications in Africa


In-situ SEM electrochemistry and radiolysis


In-Situ Transmission Electron Microscopy on Operating Electrochemical Cells


In SITU Transmission Electron Microscopy on Operating Electrochemical CELLS


Interface-Induced Renormalization of Electrolyte Energy Levels in Magnesium Batteries

Kumar, N. & Siegel, D. J. 2016 In : The Journal of Physical Chemistry Letters. 7, p. 874-881
Intermediate Phase Study on YBCO Films Coated by Precursor Solutions With F/Ba Atomic Ratio of 2
Publication: Research - peer-review › Journal article – Annual report year: 2016

Intermediate Temperature Proton Conductors – Why and How
Li, Q., Aili, D., Jensen, J. O. & Cleemann, L. N. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Introduction
Publication: Research › Book chapter – Annual report year: 2016

Introduction to the Issue on Organic Nanophotonics
Publication: Research - peer-review › Editorial – Annual report year: 2016

Investigation of CeO2 Buffer Layer Effects on the Voltage Response of YBCO Transition-Edge Bolometers
Publication: Research - peer-review › Journal article – Annual report year: 2016

Investigation of the bonding strength and bonding mechanisms of SOFCs interconnector-electrode interfaces
Publication: Research - peer-review › Journal article – Annual report year: 2016

Jc enhancement by La-Al-O doping in Y-Ba-Cu-O films both in self-field and under magnetic field
Publication: Research - peer-review › Journal article – Annual report year: 2016

Joining of ceramic Ba0.5Sr0.5Co0.8Fe0.2O3 membranes for oxygen production to high temperature alloys
Publication: Research - peer-review › Journal article – Annual report year: 2016

Kinetic Studies on State of the Art Solid Oxide Cells: A Comparison between Hydrogen/Steam and Reformate Fuels
Publication: Research - peer-review › Journal article – Annual report year: 2016

Kinetic Study of the Chemical Vapor Deposition of Tantalum in Long Narrow Channels
Publication: Research - peer-review › Journal article – Annual report year: 2016

Large CZTS Nanoparticles Synthesized by Hot-injection for Thin Film Solar Cells
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Laser beam induced current mapping (LBIG) of solar cells
Jørgensen, M. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016
Lifetime of ALD Al₂O₃ Passivated Black Silicon Nanostructured for Photovoltaic Applications
Plakhotnyuk, M., Davidsen, R. S., Schmidt, M. S., Malureanu, R., Stamate, E. & Hansen, O. 2016
Publication: Research - peer-review › Poster – Annual report year: 2017

Lifetime of Nano-Structured Black Silicon for Photovoltaic Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Lifetime of organic photovoltaics: Status and predictions
Gevorgyan, S. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Lifetime of Organic Photovoltaics: Status and Predictions
In : Advanced Energy Materials. 6, 2, 17 p., 1501208
Publication: Research - peer-review › Journal article – Annual report year: 2015

Link between intermittent electrical energy sources and district heating sector
Publication: Communication › Journal article – Annual report year: 2016

Localized Carbon Deposition in Solid Oxide Electrolysis Cells Studied By Multiphysics Modeling
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Long-term operation of a solid oxide cell stack for coelectrolysis of steam and CO₂
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Long-Term Stability of Anode-Supported Solid Oxide Fuel Cells with a Co-Sintered Cathode Backbone and Infiltrated La₀.95Co₀.4Ni₀.6O₃ (LCN) Electro-Catalyst
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Low cost porous MgO substrates for oxygen transport membranes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Low temperature processed MnCo₂O₄ and MnCo₁.₈Fe₀.₂O₄ as effective protective coatings for solid oxide fuel cell interconnects at 750 °C
Publication: Research - peer-review › Journal article – Annual report year: 2016

LSCF fibers for IT-SOFCs applications: synthesis and morphological analysis
Publication: Research › Conference abstract for conference – Annual report year: 2016
Magnetocaloric materials and first order phase transitions
Publication: Research › Ph.D. thesis – Annual report year: 2016

Magneto-elastic coupling in La(Fe, Mn, Si)_{13}Hy within the Bean-Rodbell model
Publication: Research › peer-review › Journal article – Annual report year: 2016

Manufacture, installation and decommissioning of organic solar cell parks
Søndergaard, R. R. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Manufacturing of a LaNiO_3 composite electrode for oxygen evolution in commercial alkaline water electrolysis
Publication: Research › peer-review › Journal article – Annual report year: 2016

Marginal Generation Technology in the Chinese Power Market towards 2030 Based on Consequential Life Cycle Assessment
Zhao, G., Guerrero, J. M. & Pei, Y. 2016 In : Energies. 9, 10, 14 p., 788
Publication: Research › peer-review › Journal article – Annual report year: 2016

Material transfer in Pulsed Laser Deposition of the solar cell materials Cu_2SnS_3 and Cu_2ZnSnS_4.
Publication: Research › peer-review › Conference abstract for conference – Annual report year: 2017

Mechanical Characterization of Energy Materials at DTU Energy
Tadesse Molla, T., Han, L. & Frandsen, H. L. 2016
Publication: Research › peer-review › Conference abstract for conference – Annual report year: 2016

Mechanical Properties of a Library of Low-Band-Gap Polymers
Publication: Research › peer-review › Journal article – Annual report year: 2016

Mg/O_2 Battery Based on the Magnesium-Aluminum Chloride Complex (MACC) Electrolyte
Publication: Research › peer-review › Journal article – Annual report year: 2016

Modeling of active magnetic regenerators and experimental investigation of passive regenerators with oscillating flow
Publication: Research › Ph.D. thesis – Annual report year: 2016

Modeling of transport phenomena in battery cathode materials
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Modelling transition towards sustainable transportation sector
Publication: Research › Sound/Visual production (digital) – Annual report year: 2016
Modelling Transition Towards Sustainable Transportation Sector
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Molecular dynamics simulations of ternary PtxPdyAuz fuel cell nanocatalyst growth
Publication: Research - peer-review › Journal article – Annual report year: 2016

Nanocomposite YSZ-NiO Particles with Tailored Structure Synthesized in a Two-Stage Continuous Hydrothermal Flow Reactor
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Nanoconfinement of LiBH4 for High Ionic Conductivity in Lithium Ion Batteries
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

New Hypothesis for SOFC Ceramic Oxygen Electrode Mechanisms
Publication: Research - peer-review › Conference article – Annual report year: 2016

New Insights into the Creation of High-Mobility Two-Dimensional Electron Gas at Oxide Interfaces: Control of Interfacial Redox Reactions by an Electron Sink
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Ni/YSZ electrodes structures optimized for increased electrolysis performance and durability
Publication: Research - peer-review › Journal article – Annual report year: 2016

Non-Platinum Oxygen Reduction Catalysts. From Crystalline to Molecular Moieties
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Nonuniversal scaling of the magnetocaloric effect as an insight into spin-lattice interactions in manganites
Publication: Research - peer-review › Journal article – Annual report year: 2016

Novel ceramic processing method for substitution of toxic plasticizers
Publication: Research - peer-review › Journal article – Annual report year: 2016
Novel high band gap pendant-borylated carbazole polymers with deep HOMO levels through direct $^+\text{N}=$B$^-$ interaction for organic photovoltaics
Publication: Research - peer-review › Journal article – Annual report year: 2016

Novel micro-reactor flow cell for investigation of model catalysts using in situ grazing-incidence X-ray scattering
Publication: Research - peer-review › Journal article – Annual report year: 2016

On Degradation Issues in High-Temperature Electrochemical Devices
De Haart, L. G. J. & Holtappels, P. 2016
Publication: Research › Sound/Visual production (digital) – Annual report year: 2016

On performance limitations and property correlations of Al-doped ZnO deposited by radio-frequency sputtering: Paper
Publication: Research - peer-review › Journal article – Annual report year: 2016

On the Challenges of Reducing Contact Resistances in Thermoelectric Generators Based on Half-Heusler Alloys
Publication: Research - peer-review › Journal article – Annual report year: 2016

On the chemical synthesis route to bulk-scale skutterudite materials
Publication: Research - peer-review › Journal article – Annual report year: 2016

Optimally segmented magnetic structures
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Optimally segmented permanent magnet structures
Insinga, A. R., Bjørk, R. & Smith, A. 2016 In : I E E E Transactions on Magnetics. 52, 12, 7 p., 7210306
Publication: Research - peer-review › Conference article – Annual report year: 2016

Optimising Magnetostatic Assemblies
Publication: Research › Ph.D. thesis – Annual report year: 2016

Optimization of Catalyst Layer Properties for High Temperature Polymer Fuel Cells
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Optimization of Multi-layer Active Magnetic Regenerator towards Compact and Efficient Refrigeration
Playing with Light in Organic Thin-Film Solar Cells
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Play with light in thin film organic materials: from nanoscale to smart windows
Pastorelli, F. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Polaronic motion of self-trapped holes in silver halides
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Polybenzimidazole Membranes by Post Acid Doping
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Polybenzimidazole membranes for zero gap alkaline electrolysis cells
Publication: Research - peer-review › Poster – Annual report year: 2016

Polymer materials for roll coated solar cells: strategies to improve performance and stability
Publication: Research › Ph.D. thesis – Annual report year: 2017

Poly(vinylpyrrolidone) as dispersing agent for cerium-gadolinium oxide (CGO) suspensions
Publication: Research - peer-review › Journal article – Annual report year: 2015

Portable and wireless IV-curve tracer for >5 kV organic photovoltaic modules
Publication: Research - peer-review › Journal article – Annual report year: 2016

Potato extract as reducing agent and stabiliser in a facile green one-step synthesis of ZnO nanoparticles
Publication: Research - peer-review › Journal article – Annual report year: 2016

Preparation and Characterization of Cathode Materials for Lithium-Oxygen Batteries
Publication: Research › Ph.D. thesis – Annual report year: 2016

Preparation and characterization of MgB2 with Pd, Pt and Re doping
Publication: Research - peer-review › Journal article – Annual report year: 2016

Preparation and characterization of Sc doped MgB2 wires
Publication: Research - peer-review › Journal article – Annual report year: 2016
Preparation, structure study and electrochemistry of layered H₂V₃O₈ materials: High capacity lithium-ion battery cathode


Publication: Research - peer-review › Journal article – Annual report year: 2016

Pressurized Operation of a Planar Solid Oxide Cell Stack


Publication: Research - peer-review › Journal article – Annual report year: 2016

Printable luminescent down shifter for enhancing efficiency and stability of organic photovoltaics


Publication: Research - peer-review › Journal article – Annual report year: 2016

Probing the active site structures of iron-based ORR catalysts


Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Processing and characterization of multilayers for energy device fabrication (invited)


Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Promising bulk nanostructured Cu₃Se thermoelectrics via high throughput and rapid chemical synthesis


Publication: Research - peer-review › Journal article – Annual report year: 2016

Properties and Structure of the LiCl-films on Lithium Anodes in Liquid Cathodes


Publication: Research - peer-review › Journal article – Annual report year: 2016

Protic Organic Ionic Plastic Crystals: Fast Solid-State Proton Conductors


Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

 Ptychographic X-ray computed tomography of extended colloidal networks in food emulsions


Publication: Research - peer-review › Journal article – Annual report year: 2016

Pulsed laser deposition of Cu₂ZnSnS₄ absorber layers assisted by a reactive sulfur beam for solar cells


Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Pulsed Laser Deposition (PLD) of the Solar Cell Materials CZTS and CTS


Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Quantitative review of degradation and lifetime of solid oxide cells and stacks


Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Roll coated large area ITO- and vacuum-free all organic solar cells from diketopyrrolopyrrole based non-fullerene acceptors with molecular geometry effects
In : RSC Advances. 6, 47, p. 41542-41550 9 p.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Roll-coating fabrication of flexible organic solar cells: comparison of fullerene and fullerene-free systems
Publication: Research - peer-review › Journal article – Annual report year: 2016

Roll-to-Roll Printed Electronics for Standalone Smart Windows
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Roll-to-roll printed silver nanowires for increased stability of flexible ITO-free organic solar cell modules
Publication: Research - peer-review › Journal article – Annual report year: 2015

Ruled-based control of off-grid electrolysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scandium-doped zinc cadmium oxide as a new stable n-type oxide thermoelectric material
Publication: Research - peer-review › Journal article – Annual report year: 2016

Screening of materials for OPV - finding the perfect candidate(s)
Bundgaard, E. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Self-Assembled Plasmonic Nanoparticles for Organic Photovoltaics
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Self-supported ceramic substrates with directional porosity by mold freeze casting
Publication: Research - peer-review › Journal article – Annual report year: 2016

Shaping our energy future by electrospinning
Zhang, W. A. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Silicon doped InP as an alternative plasmonic material for mid-infrared
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Simulation, design and proof-of-concept of a two-stage continuous hydrothermal flow synthesis reactor for synthesis of functionalized nano-sized inorganic composite materials
Publication: Research - peer-review › Journal article – Annual report year: 2016
Slot-Die-Coated V_{2}O_{5} as Hole Transport Layer for Flexible Organic Solar Cells and Optoelectronic Devices
Publication: Research - peer-review › Journal article – Annual report year: 2016

Space-Confined Synthesis of Three-Dimensional Boron/Nitrogen-Doped Carbon Nanotubes/Carbon Nanosheets Line-in-Wall Hybrids and Their Electrochemical Energy Storage Applications
Publication: Research - peer-review › Journal article – Annual report year: 2016

Specific electrical conductivity in molten potassium dihydrogen phosphate KH_{2}PO_{4} - An electrolyte for water electrolysis at ~300°C
Publication: Research - peer-review › Journal article – Annual report year: 2016

Stability of MOF-5 in a hydrogen gas environment containing fueling station impurities
Publication: Research - peer-review › Journal article – Annual report year: 2016

Strain development during the phase transition of La(Fe,Mn,Si)_{13}H_{x}
Publication: Research - peer-review › Journal article – Annual report year: 2016

Study of multi-layer active magnetic regenerators using magnetocaloric materials with first and second order phase transition: Paper
Publication: Research - peer-review › Journal article – Annual report year: 2016

Study of the Polarization Behavior of Ce_{1-x}Gd_{x}O_{2-δ} Single Crystals below 350°C to Room Temperature
Publication: Research - peer-review › Journal article – Annual report year: 2016

Study of variables for accelerating lifetime testing of SOFCs
Ploner, A., Hagen, A. & Hauch, A. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Subsolidus Phase Relations of the CaO-REO_{x}-CuO Systems (RE = Eu, Tb, Dy, Ho, Er, Lu and Sc) at 900 °C in Air
Publication: Research - peer-review › Journal article – Annual report year: 2016

Superconducting Dy_{1-x}(Gd,Yb)_{x}Ba_{2}Cu_{3}O_{7} thin films made by Chemical Solution Deposition
Publication: Research - peer-review › Journal article – Annual report year: 2016
Synthesis and characterization of 2D layered gadolinium-doped cerium oxide (CGO) nanomaterials
Poras Reis de Moraes, L., Marani, D., Esposito, V., Zanetti De Florio, D. & Coral Fonseca, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Synthesis of ligand-free CZTS nanoparticles via a facile hot injection route
Publication: Research - peer-review › Journal article – Annual report year: 2016

Synthesis of Polybenzimidazoles
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Systematic Study of Durability of High Temperature PEM Fuel Cells at Selected Temperatures, Flow Rates and Loads
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Techniques for PBI Membrane Characterization
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Temperature Dependence of Charge Localization in High-Mobility, Solution-Crystallized Small Molecule Semiconductors Studied by Charge Modulation Spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2015

Ternary alkaline polybenzimidazole electrolytes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

The 2016 oxide electronic materials and oxide interfaces roadmap
Publication: Research - peer-review › Review – Annual report year: 2016

The A-cation deficient perovskite series La$_{2-x}$CoTiO$_{6-δ}$ (0 ≤ x ≤ 0.20): new components for potential SOFC composite cathodes
Publication: Research - peer-review › Journal article – Annual report year: 2016

The effect of tape casting operational parameters on the quality of adjacently graded ceramic film
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Impact of Strong Cathodic Polarization on SOC Electrolyte Materials
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

The Influence of Conjugated Polymer Side Chain Manipulation on the Efficiency and Stability of Polymer Solar Cells
The lifetime cost of a magnetic refrigerator
Publication: Research - peer-review › Journal article – Annual report year: 2016

The magnetic properties of the hollow cylindrical ideal remanence magnet
Publication: Research - peer-review › Journal article – Annual report year: 2016

Theoretical Insight into the Trends that Guide the Electrochemical Reduction of Carbon Dioxide to Formic Acid
Publication: Research - peer-review › Journal article – Annual report year: 2016

Theoretical Limiting Potentials in Mg/O2 Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Organic Power Transistor: Roll-to-Roll Manufacture, Thermal Behavior, and Power Handling When Driving Printed Electronics
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermal analysis of CZTS nanoparticles and inks
Publication: Research › Poster – Annual report year: 2016

Thermal decomposition of heavy rare-earth butanoates, Ln(C3H7CO2)3 (Ln = Er, Tm, Yb and Lu) in argon
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermal decomposition of Yttrium(III) isovalerate in argon
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermo-Chemo-Mechanical Response of Solid Oxide Cells during Reduction and Cooling
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Thermodynamic modeling of the Sr-Co-Fe-O system
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermoelectric Properties of Solution-Processed n-Doped Ladder-Type Conducting Polymers
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermoviscoelastic models for polyethylene thin films
Publication: Research - peer-review › Journal article – Annual report year: 2015
The role of hydrogen bonds in the melting points of sulfonate-based protic organic salts
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Thin films for energy conversion and storage devices: status and perspective
Stamate, E. 2016
Publication: Research › Conference abstract for conference – Annual report year: 2016

Three-dimensional numerical modeling of an induction heated injection molding tool with flow visualization
Publication: Research - peer-review › Journal article – Annual report year: 2016

Tracking Electronic Pathways in Energy Materials by Low Voltage Scanning Electron Microscopy
Bentzen, J. J. & Thydén, K. T. S. 2016
Publication: Research - peer-review › Poster – Annual report year: 2016

Tracking Electronic Pathways in Energy Materials by Low Voltage Scanning Electron Microscopy
Bentzen, J. J. & Thydén, K. T. S. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Transparent and low emissivity coatings based on aluminum doped zinc oxide
Stamate, E. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Tubular asymmetric oxygen transport membranes
Bjørnetun Haugen, A., Ovtar, S., Gurauskis, J., Kaiser, A. & Hendriksen, P. V. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Tuning the activity of Pt alloy electrocatalysts by means of the lanthanide contraction
Publication: Research - peer-review › Journal article – Annual report year: 2016

Understanding degradation of solid oxide electrolysis cells through modeling of electrochemical potential profiles
Publication: Research - peer-review › Journal article – Annual report year: 2016

Understanding ternary poly(potassium benzimidazolide)-based polymer electrolytes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Understanding the Thermodynamic Properties of the Elastocaloric Effect Through Experimentation and Modelling
Publication: Research - peer-review › Journal article – Annual report year: 2016

Universality in Nonaqueous Alkali Oxygen Reduction on Metal Surfaces: Implications for Li−O₂ and Na−O₂ Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2016

Voltage and Thermally Driven High Current RolltoRoll Printed Transistors
Pastorelli, F. 2016
Water vapor pressure over molten KH₂PO₄ and demonstration of water electrolysis at ∼300°C
Publication: Research - peer-review › Journal article – Annual report year: 2016

Which Electrode Materials to Select for More Environmentally Friendly Organic Photovoltaics?
Publication: Research - peer-review › Journal article – Annual report year: 2016

Wte Power Plant Operation on the Energy Market Under the Influence of Legislation Changes
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Zero carbon energy system of South East Europe in 2050
Publication: Research - peer-review › Journal article – Annual report year: 2016

Zero carbon energy system of south east europe in 2050 - poster
Publication: Research - peer-review › Journal article – Annual report year: 2016

Zero-Gap Alkaline Water Electrolysis Using Ion-Solvating Polymer Electrolyte Membranes at Reduced KOH Concentrations
Publication: Research - peer-review › Journal article – Annual report year: 2016

The active magnetic regenerator device
Publication: Research › Patent – Annual report year: 2015

The oxygen transport membrane.
Publication: Research › Patent – Annual report year: 2015

Method for Producing Substrates for Superconducting Layers
Wulff, A. C. 28 May 2015
Publication: Research › Patent – Annual report year: 2015

System for cooling a cabinet
Publication: Research › Patent – Annual report year: 2015

Searching for electrolytes and electrodes for CO₂ reduction below 300 °C
Publication: Research › Ph.D. thesis – Annual report year: 2015
Elektrolyse gør al energi fra vindmøller værdifuld
Publication: Communication › Internet publication – Annual report year: 2015

1,2,4-Triazolium perfluorobutanesulfonate as an archetypal pure protic organic ionic plastic crystal electrolyte for all-solid-state fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Accelerated Degradation for Hardware in the Loop Simulation of Fuel Cell-Gas Turbine Hybrid System
Publication: Research - peer-review › Journal article – Annual report year: 2015

Accelerated DFT-Based Design of Materials for Ammonia Storage
Publication: Research - peer-review › Journal article – Annual report year: 2015

Accelerated testing of solid oxide fuel cell stacks for micro combined heat and power application
Publication: Research - peer-review › Journal article – Annual report year: 2015

Acid-base Chemistry and Proton Conductivity of High Temperature Polymer Electrolytes
Li, Q., Aili, D., Cleemann, L. N. & Jensen, J. O. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Acido-basic control of the thermoelectric properties of poly(3,4-ethylenedioxythiophene)tosylate (PEDOT-Tos) thin films
Publication: Research - peer-review › Journal article – Annual report year: 2015

Activated Carbon Nanochains with Tailored Micro-Meso Pore Structures and Their Application for Supercapacitors
Publication: Research - peer-review › Journal article – Annual report year: 2015

Active Cooling and Thermal Management of a Downhole Tool Electronics Section
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A DFT-based genetic algorithm search for AuCu nanoalloy electrocatalysts for CO2 reduction
Publication: Research - peer-review › Journal article – Annual report year: 2015

Air-processed organic tandem solar cells on glass: toward competitive operating lifetimes
Publication: Research - peer-review › Journal article – Annual report year: 2015
Alkali Metal-O₂ Batteries. Performance and Lifetime Limiting Effects
Publication: Research › Ph.D. thesis – Annual report year: 2015

Alkalisk elektrolyse til vedvarende energikilder
Publication: Research › Journal article – Annual report year: 2015

Ambient effects on the electrical conductivity of carbon nanotubes
Publication: Research - peer-review › Journal article – Annual report year: 2015

A model for the impact of the nanostructure size on its gas sensing properties
Publication: Research - peer-review › Journal article – Annual report year: 2015

Analysis of the Interphase on Carbon Black Formed in High Voltage Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2015

Analysis of the Interphase on Carbon Black Formed in High Voltage Batteries

An efficient numerical scheme for the simulation of parallel-plate active magnetic regenerators
Publication: Research - peer-review › Journal article – Annual report year: 2015

An Electrochemical Impedance Spectroscopy Investigation of the Overpotentials in Li–O₂ Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2015

An investigation on the role of thermal fins in the design of micro heat exchangers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

An isooindigo containing donor-acceptor polymer: synthesis and photovoltaic properties of all-solution-processed ITO- and vacuum-free large area roll-coated single junction and tandem solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Anode Support Creep

A novel CO₂- and SO₂-tolerant dual phase composite membrane for oxygen separation
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Publication Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A study of thermoelectric (\beta-\text{Zn4Sb3}) under thermal cycling and large temperature gradients</td>
<td>Le, T. H., Van Nong, N., Han, L., Brummerstedt Iversen, B., Yin, H. &amp; Pryds, N.</td>
<td>2015 Book of Abstracts - 34th Annual International Conference on Thermoelectrics (ICT 2015) and 13th European conference on Thermoelectrics (ECT 2015). PA188</td>
</tr>
</tbody>
</table>
Catalytic Surface Promotion of Composite Cathodes in Protonic Ceramic Fuel Cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Chalcogenide compounds made by pulsed laser deposition at 355 and 248 nm
Publication: Research - peer-review › Poster – Annual report year: 2015

Characterization of the contact between Bi2Te3-based materials and lead-free solder alloy under thermal cycling
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Charge Localization in the Lithium Iron Phosphate Li3Fe2(PO4)3 at High Voltages in Lithium-Ion Batteries
Publication: Research - peer-review › Journal article – Annual report year: 2015

Charge Transfer Induced Modulation Doping at Oxide Interfaces
Chen, Y. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Charge transfer induced modulation doping of two-dimensional electron gas at complex oxide interfaces
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Colloidal stabilization of cerium-gadolinium oxide (CGO) suspensions via rheology
Publication: Research - peer-review › Journal article – Annual report year: 2015

Comparative Indoor and Outdoor Degradation of Organic Photovoltaic Cells via Inter-laboratory Collaboration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Comparing superconducting and permanent magnets for magnetic refrigeration
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Comparison of direct and indirect plasma oxidation of NO combined with oxidation by catalyst
Publication: Research - peer-review › Journal article – Annual report year: 2015

Comparison Study of YBa2Cu3O7-x Films Deposited by Using Various Carboxylate Solutions
Publication: Research - peer-review › Journal article – Annual report year: 2015

Complete relaxation of residual stresses during reduction of solid oxide fuel cells
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Computational Analysis and Design of New Materials for Metal-Air Batteries
Publication: Research › Ph.D. thesis – Annual report year: 2015

Computationally Efficient Model of An Active Magnetocaloric Regenerator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Computational thermodynamics in electric current metallurgy
Bhowmik, A. & Qin, R. S. 2015 In : Materials Science and Technology. 31, 13a, p. 1560-1563
Publication: Research - peer-review › Journal article – Annual report year: 2015

Computation of Effective Steady-State Creep of Porous Ni–YSZ Composites with Reconstructed Microstructures
Kwok, K., Jørgensen, P. S. & Frandsen, H. L. 2015 In : Journal of the American Ceramic Society. 98, 9, p. 2873–2880
Publication: Research - peer-review › Journal article – Annual report year: 2015

Controlling the Activity and Stability of Pt-Based Electrocatalysts By Means of the Lanthanide Contraction
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

CO₂ Fixation by Membrane Separated NaCl Electrolysis
Publication: Research - peer-review › Journal article – Annual report year: 2015

Creation of High Mobility Two-Dimensional Electron Gases via Strain Induced Polarization at an Otherwise Nonpolar Complex Oxide Interface
Publication: Research - peer-review › Journal article – Annual report year: 2015

CsH₂PO₄/NdPO₄ Composites as Proton Conducting Electrolytes for Intermediate Temperature Fuel Cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Degradation Studies on LiFePO₄ cathode
Publication: Research - peer-review › Journal article – Annual report year: 2015

Design and experimental tests of a rotary active magnetic regenerator prototype
Publication: Research - peer-review › Journal article – Annual report year: 2015
Design and Optimization of Effective Segmented Thermoelectric Generator for Waste Heat Recovery
Publication: Research › Ph.D. thesis – Annual report year: 2015

Design of two-photon molecular tandem architectures for solar cells by ab initio theory
Ørnsø, K. B., García Lastra, J. M., De La Torre, G., Rubio, A. & Thygesen, K. S. 2015 In : Chemical Science. 6, p. 3018-3025
Publication: Research - peer-review › Journal article – Annual report year: 2015

Development and Manufacture of Polymer-based Electrochromic Devices
Publication: Research - peer-review › Journal article – Annual report year: 2015

Development of ceramic multilayer devices for clean and efficient energy conversion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Development of high temperature PEM fuel cells. Simplification and CO tolerance mapping
Publication: Research › Sound/Visual production (digital) – Annual report year: 2016

Development of Lab-to-Fab Production Equipment Across Several Length Scales for Printed Energy Technologies, Including Solar Cells
Hösel, M., Dam, H. F. & Krebs, F. C. 2015 In : Energy Technology. 3, 4, p. 293–304
Publication: Research - peer-review › Review – Annual report year: 2015

Dictionary Based Segmentation in Volumes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Dictionary Based Segmentation in Volumes
Publication: Research - peer-review › Poster – Annual report year: 2016

Direct Coal Oxidation in Modified Solid Oxide Fuel Cells
Publication: Research - peer-review › Conference article – Annual report year: 2015

Direct measurements of the magnetic entropy change
Publication: Research - peer-review › Journal article – Annual report year: 2015

Dispenser printed thermoelectric generators
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Durable thin ceramic films for improvement of Proton Exchange Membrane (PEM) electrolysis
Dynamic behavior of impurities and native components in model LSM microelectrodes on YSZ

Dynamic rotor mode in antiferromagnetic nanoparticles

Ecodesign of organic photovoltaic modules from Danish and Chinese perspectives
Espinosa Martinez, N., Laurent, A. & Krebs, F. C. 2015 In : Energy & Environmental Science. 8, p. 2537-2550

Economic Potential of Biomass from Unused Agriculture Land for Energy Use: Case of Croatia

Effectiveness of electronic stability control on single-vehicle accidents

Effect of Aging on the Electrochemical Performance of LSM-YSZ Cathodes

Effect of BaZrO3/Ag hybrid doping to the microstructure and performance of fluorine-free MOD method derived YBa2Cu3O7−x superconducting thin films

Effect of chemical redox on Gd-doped ceria mass diffusion

Effect of Co3O4 and Co3O4/CeO2 infiltration on the catalytic and electro-catalytic activity of LSM15/CGO10 porous cell stacks for oxidation of propene

Effect of stress on NiO reduction in solid oxide fuel cells: A new application of energy-resolved neutron imaging
Effect of surface shear on cube texture formation in heavy cold-rolled Cu-45 at%Ni alloy substrates
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effect of Temperature Step Size on Calculating the Magnetic Entropy Change
Publication: Research › Conference abstract for conference – Annual report year: 2015

Effects of constant voltage and constant current stress in PCBM:P3HT solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effects of the fabrication process on the grain-boundary resistance in BaZr$_{0.9}$Y$_{0.1}$O$_{3-δ}$
Publication: Research - peer-review › Comment/debate – Annual report year: 2015

Effects of Yttrium and Iron co-doping on the high temperature thermoelectric properties of Ca$_3$Co$_4$O$_{9+δ}$
Publication: Research - peer-review › Journal article – Annual report year: 2015

Elastocaloric cooling device: Materials and modeling
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Elastocaloric effect of Ni-Ti wire for application in a cooling device
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrical characterization of fluorinated benzothiadiazole based conjugated copolymer – a promising material for high-performance solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrical properties and flux performance of composite ceramic hydrogen separation membranes
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrochemical Impedance Spectroscopy as a Tool for PEMECs Development
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Electrochemical reduction of NO with propene in the presence of oxygen on LSCO/CBO porous cell stacks impregnated with BaO
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrochemistry as a Tool for Study, Development and Promotion of Catalytic Reactions
Publication: Research › Doctoral thesis – Annual report year: 2015
Electrode Kinetics and Gas Conversion in Solid Oxide Cells
Publication: Research › Ph.D. thesis – Annual report year: 2016

Electrolysis for Power to Fuel
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Electrophoretic deposition of Mn$_{1.5}$Co$_{1.5}$O$_4$ on metallic interconnect and interaction with glass-ceramic sealant for solid oxide fuel cells application
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrospinning for Solid Oxide Fuel Cells
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Eliminating degradation in solid oxide electrochemicals by reversible operation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Enabling Flexible Polymer Tandem Solar Cells by 3D Ptychographic Imaging
Publication: Research - peer-review › Journal article – Annual report year: 2015

Enhancing hybrid direct carbon fuel cell anode performance using Ag$_2$O
Publication: Research - peer-review › Journal article – Annual report year: 2015
Environmental benefits of parking-integrated photovoltaics: A 222kWp experience
Publication: Research - peer-review › Journal article – Annual report year: 2015

Environmental impacts of electricity generation at global, regional and national scales in 1980–2011: What can we learn for future energy planning?
Laurent, A. & Espinosa Martinez, N. 2015 In : Energy & Environmental Science. 8, p. 689–701
Publication: Research - peer-review › Journal article – Annual report year: 2015

Environmental TEM study of the dynamic nanoscaled morphology of NiO/YSZ during reduction
Publication: Research - peer-review › Journal article – Annual report year: 2015

Erratum: In Situ Studies of Fe4+ Stability in β-Li3Fe2(PO4)3 Cathodes for Li Ion Batteries
Publication: Research - peer-review › Comment/debate – Annual report year: 2015

Experimental Studies with an Active Magnetic Regenerating Refrigerator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Extreme mobility enhancement of two-dimensional electron gases at oxide interfaces via charge transfer induced modulation doping
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fabrication and performance of a tubular ceria based oxygen transport membrane on a low cost MgO support
Publication: Research - peer-review › Journal article – Annual report year: 2015
Fabrication of doped Titania (TiO2) nano-catalysts in the shape of nanofibers
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Fabrication of Ni-5 at. %W Long Tapes with CeO2 Buffer Layer by Reel-to-Reel Method
Ma, L., Tian, H., Yue, Z., Gao, M., Suo, H. & Grivel, J-C. 2015 In : Journal of Superconductivity and Novel Magnetism. 28, 10, p. 2959-2965 7 p.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fabrication of porous 3-YSZ turbular supports for oxygen transport membranes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Fabrication of thin yttria-stabilized-zirconia dense electrolyte layers by inkjet printing for high performing solid oxide fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fast mass interdiffusion in ceria/alumina composite
Publication: Research - peer-review › Journal article – Annual report year: 2015

Flexible sample environment for high resolution neutron imaging at high temperatures in controlled atmosphere
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fullerene alloy formation and the benefits for efficient printing of ternary blend organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Functional Analysis of Battery Management Systems using Multi-Cell HIL Simulator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Functionally Graded Ceramics Fabricated with Side-by-Side Tape Casting for Use in Magnetic Refrigeration
Publication: Research - peer-review » Journal article – Annual report year: 2014

Fundamental electrochemistry: general discussion
Publication: Research - peer-review » Journal article – Annual report year: 2015

Fundamental mechanisms in Li-air battery electrochemistry
Publication: Research › Ph.D. thesis – Annual report year: 2015

Graphene oxide and hyperbranched polymer-toughened hydrogels with improved absorption properties and durability
Publication: Research - peer-review » Journal article – Annual report year: 2015

Growth of Highly Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7-x$ Films from a Simple Propionate-Based Solution
Publication: Research - peer-review » Journal article – Annual report year: 2015

H/D isotope effects in high temperature proton conductors
Publication: Research - peer-review » Journal article – Annual report year: 2015

High-Jc $\text{YBa}_2\text{Cu}_3\text{O}_7-x$-Ag superconducting thin films synthesized through a fluorine-free MOD method
Tang, X., Yue, Z., Wu, W., Grivel, J-C. & Andersen, N. H. 2015 In : Journal of the European Ceramic Society. 35, 6, p. 1761–1769
Publication: Research - peer-review » Journal article – Annual report year: 2015

Highly Confined Electronic and Ionic Conduction in Oxide Heterostructures
Publication: Research - peer-review » Conference abstract in journal – Annual report year: 2015

High performance p-type segmented leg of misfit-layered cobaltite and half-Heusler alloy
Publication: Research - peer-review » Journal article – Annual report year: 2015

High performing SOFC via multilayer tape casting?
Hauch, A. 2015
Publication: Research - peer-review » Poster – Annual report year: 2015

High Temperature Electrolysis
Publication: Research - peer-review » Book chapter – Annual report year: 2015

High-temperature stability of thermoelectric $\text{Ca}_2\text{Co}_4\text{O}_9$ thin films
Publication: Research - peer-review » Journal article – Annual report year: 2015
Hybrid direct carbon fuel cell anode processes investigated using a 3-electrode half-cell setup
Publication: Research - peer-review › Journal article – Annual report year: 2015

Hybrid Direct Carbon Fuel Cell Performance with Anode Current Collector Material
Deleebeeck, L. & Kammer Hansen, K. 2015 In : Journal of Fuel Cell Science and Technology. 12, 6, 6 p., 064501
Publication: Research - peer-review › Journal article – Annual report year: 2016

Hybrid TEG-heat exchanger module for electrical power production
Sarhadi, A., Bjørk, R., Nielsen, K. K. & Pryds, N. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Hydrogen Energy by Means of Proton Conductors
Jensen, J. O. 2015
Publication: Communication › Conference abstract for conference – Annual report year: 2016

Identifying Activity Descriptors for CO2 Electro-Reduction to Methanol on Rutile (110) Surfaces
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Identifying systematic DFT errors in catalytic reactions
Publication: Research - peer-review › Journal article – Annual report year: 2015

Identifying the Discharge Product and Reaction Pathway for a Secondary Mg/O-2 Battery
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impedance-Based Battery Management for Metal-O2 Systems
Publication: Research - peer-review › Journal article – Annual report year: 2015

Improved Accuracy of Density Functional Theory Calculations for CO2 Reduction and Metal-Air Batteries
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Improving organic tandem solar cells based on water-processed nanoparticles by quantitative 3D nanoimaging
Publication: Research - peer-review › Journal article – Annual report year: 2015

Influence of Functionality on Direct Arylation of Model Systems as a Route Toward Fluorinated Copolymers via Direct Arylation Polymerization (DArP)
Publication: Research - peer-review › Journal article – Annual report year: 2015

Influence of hydroxyl content of binders on rheological properties of cerium-gadolinium oxide (CGO) screen printing inks
Integration of oxygen membranes for oxygen production in cement plants
Publication: Research › peer-review › Journal article – Annual report year: 2015

Interfacial engineering of self-assembled monolayer modified semi-roll-to-roll planar heterojunction perovskite solar cells on flexible substrates
Publication: Research - peer-review › Journal article – Annual report year: 2015

Investigation of Impedance-Based Parameters in Metal-O2 Batteries for Next Generation of Battery Management Systems
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Investigation of Novel Electrocatalysts for Metal Supported Solid Oxide Fuel Cells - Ru:GDC
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Kinetics of CO/CO2 and H2/H2O reactions at Ni-based and ceria-based solid-oxide-cell electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2015

Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO2 and CH4
Magnesium oxide supported thin dual phase composite oxygen permeation reactors
Ovtar, S., Søgaard, M., Gurauskis, J., Hendriksen, P. V. & Kaiser, A. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Magnetocaloric effect and H gradient in bulk La(Fe, Si)13Hy magnetic refrigerants obtained by HDSH
2015 In : Journal of Magnetism and Magnetic Materials. 386, p. 125–128
Publication: Research - peer-review › Journal article – Annual report year: 2015

Magnetocaloric Energy Conversion: From Theory to Applications
Publication: Research - peer-review › Book – Annual report year: 2015

Magnetostriiction and magnetisation in La$_{0.67}$Ca$_{0.33}$MnO$_3$ within the Bean-Rodbell framework
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Making Ends Meet: Flow Synthesis as the Answer to Reproducible High-Performance Conjugated Polymers on the Scale that Roll-to-Roll Processing Demands
In : Advanced Energy Materials. 5, 9, 7 p., 1401996
Publication: Research - peer-review › Journal article – Annual report year: 2015

Materials development: general discussion
Publication: Research - peer-review › Journal article – Annual report year: 2015

Matrix Organization and Merit Factor Evaluation as a Method to Address the Challenge of Finding a Polymer Material for Roll Coated Polymer Solar Cells
Publication: Research - peer-review › Journal article – Annual report year: 2015

Mechanism of formation of thermoelectric layered cobaltates by annealing CaO-CoO thin films grown by reactive sputtering
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Mechanism of Formation of the Thermoelectric Layered Cobaltate Ca$_2$Co$_3$O$_7$ by Annealing of CaO–CoO Thin Films
Publication: Research - peer-review › Journal article – Annual report year: 2015

Mechanistic Pathway in the Electrochemical Reduction of CO$_2$ on RuO$_2$
Publication: Research - peer-review › Journal article – Annual report year: 2015
Method and system for the purification of exhaust gas with an electrochemical cell
Kammer Hansen, K., Mogensen, M. B. & Shao, J. 2015
Publication: Research › Patent – Annual report year: 2015

Methyl phosphate formation as a major degradation mode of direct methanol fuel cells with phosphoric acid based electrolytes
Publication: Research - peer-review › Journal article – Annual report year: 2015

Projects:

Electrochemical CO2 reduction at high temperature in Solid Oxide Electrolysis Cells
Sala, E. M., Chatzichristodoulou, C. & Mogensen, M. B.
01/05/2018 → 30/04/2021
Project: PhD

Three-dimensional inversion of X-ray phase contrast tomography data
Slyamov, A., Andreasen, J. W., Holzner, C. & Mokso, R.
01/05/2018 → 30/04/2021
Project: PhD

In situ structural characterization of multilayer formation during large-scale processing of 3rd generation solar cells
Sørensen, M. K., Andreasen, J. W., Kuhn, L. T. & Trofod, T.
01/03/2018 → 28/02/2021
Project: PhD

The Effect of Non-magnetic Properties on Active Magnetic Regeberator Performance
Liang, J., Bahl, C., Engelbrecht, K. & Nielsen, K. K.
01/03/2018 → 28/02/2021
Project: PhD

Tracking the Microstructure Evolution of an Operating Lithium-Sulphur Battery in Three Dimensions
Bowen, J. R. & De Angelis, S.
16/02/2018 → 17/08/2018
Project

Design and Structuring of electrospun nanofiber membrane for high temperature proton exchange membrane fuel cells
Chen, Y., Li, Q. & Zhang, W. (. 01/02/2018 → 31/01/2021
Project: PhD

Machine Learning and AB-initio Simulations for Accelerated Materials Discovery
Bölle, F. T., Vegge, T., Castelli, I. E. & Thygesen, K. S.
01/02/2018 → 31/01/2021
Project: PhD

Novel electrocatalysts and 3D porous electrodes for efficient alkaline water electrolysis
Gellrich, F., Chatzichristodoulou, C. & Traulsen, M. L.
01/02/2018 → 31/01/2021
Project: PhD

Superconducting thin-film neutron detector
Wulff, A. C., Bertelsen, J. L., Abrahamsen, A. B. & Kuhn, L. T.
02/01/2018 → 20/06/2018
Project
Low-cost High Performance Thermoelectric Materials and Modules for High-temperature Waste Heat Harvesting
Van Nong, N.
01/01/2018 → 31/12/2018
Project

Design and structuring of electrospun nanofiber non-Pt catalysts and electrode for high temperature proton exchange membrane fuel cells
Bompolaki, E., Jensen, J. O. & Zhang, W.
01/01/2018 → 31/12/2020
Project: PhD

Development of novel electrode materials for high temperature electrochemical water splitting
Mazzanti, N., Hendriksen, P. V., Chatzichristodoulou, C. & Mogensen, M. B.
01/01/2018 → 31/12/2020
Project: PhD

Getting the most out of magnetocaloric materials for high efficiency refrigeration
Erbesdobler, F., Nielsen, K. K., Bahl, C. & Bjørk, R.
01/01/2018 → 31/12/2020
Project: PhD

Mesoscale modelling of morphologies, charge carrier generation, and charge transport in third generation solar cells
Gertsen, A. S., Andreasen, J. W., Nelson, J. & Stingelin-Stutzmann, N.
01/01/2018 → 31/12/2020
Project: PhD

Organic Redox Flow Batteries: Active Materials and Cell Stability
Hoffmeyer, D., Hjelm, J. & Vegge, T.
01/01/2018 → 31/12/2020
Project: PhD

High Resolution X-ray Diffraction Contrast Tomography
15/11/2017 → 14/11/2020
Project: PhD

Development of a versatile slip-ring/rotary-union based in-operando high temperature functional material test cell for the DanMAX beamline
Bowen, J. R., Sierra Trujillo, J. X. & Karlsson, M.
01/10/2017 → 31/03/2018
Project

Computational design of electrocatalysts for CO2 reduction
Kildgaard, J. V., Vegge, T. & Hansen, H. A.
01/09/2017 → 31/08/2020
Project: PhD

Development of Porous Electrodes for Alkaline Electrolyzers
Reumert, A. K., Jensen, J. O., Cleemann, L. N. & Kraglund, M. R.
01/09/2017 → 31/08/2020
Project: PhD

In situ Structural Characterization of Multilayer Formation during Large-scale Processing of 3rd Generation Solar Cells
Rogowska, M., Andreasen, J. W. & Kuhn, L. T.
01/09/2017 → 26/10/2017
**In-situ Ptychographic Studies of Lithium-Sulphur Micro-Batteries**
Bowen, J. R., De Angelis, S. & Matic, A.
15/08/2017 → 15/02/2018

**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

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

**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

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

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

**Nanocrafts - nano jewelry proof of concept**
Plakhotnyuk, M.
01/05/2017 → 30/09/2017

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

**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

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

Advanced tailoring of 3D microstructures for superconducting magnets
Wulff, A. C., Insinga, A. R., Grivel, J., Nielsen, P. H., Wichmann, M., Usoskin, A. & Gömöry, F.
01/01/2017 → 01/01/2019
Project

Adhesive development for flexible thin film electronic encapsulation
Kovrov, A., Søndergaard, R. R. & Helgesen, M.
01/01/2017 → 31/12/2019
Project: PhD
Density functional theory based modelling of materials for resistive switching memories
Pedersen, C. S., García Lastra, J. M., Pydts, N. & Vegge, T.
01/01/2017 → 31/12/2019
Project: PhD

DronEL
01/01/2017 → 31/12/2019
Project

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

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

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

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
Project: PhD

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

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

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
Project: PhD

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
Project

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
Project
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
Project: PhD

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

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

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
Project: PhD

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
Project: PhD

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
Project

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

Co-electrolysis SOEC
Rao, M., Hagen, A. & Sun, X.
15/08/2016 → 14/08/2019
Project: PhD

Computational design of catalysts for electroreduction of nitrogen into ammonia
Pan, J., Vegge, T. & Hansen, H. A.
01/08/2016 → 31/07/2019
Project: PhD

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., Engsløkke, 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
Lefevr, 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 → 30/06/2019
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) electrolys
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., Cieemann, L. N. & Li, Q.
15/09/2015 → 14/09/2018
Project: PhD

Modeling Energy Supply for Future Cities
Dominkovic, D. F., Pedersen, A. S., Nielsen, P. S. & Sørensen, M. P.
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

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.
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
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., Vegge, T., Hansen, H. A., Cleemann, L. N., Groß, A. & Skulason, E.
01/04/2015 → 31/03/2018
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.
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.
19/01/2015 → 31/12/2015
Project

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
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

ECOdesign 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: 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: PhD

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.
01/05/2014 → 30/09/2016
Project

Development of Proton Conductive membranes
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
<table>
<thead>
<tr>
<th>Project</th>
<th>Principal Investigators</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sustainable Carbon Power</strong></td>
<td>Berg, R. W. &amp; Bjerrum, N. J.</td>
<td>01/01/2014 → 31/08/2018</td>
</tr>
<tr>
<td><strong>Center for IT-Intelligent Energy Systems for Cities</strong></td>
<td>Madsen, H., Heller, A., Herrmann, I. T., Nielsen, P. S., Pedersen, A. S., Rode, C., Pinson, P. &amp; Jørgensen, J. B.</td>
<td>01/01/2014 → 31/12/2019</td>
</tr>
<tr>
<td><strong>Center for Thermoelectric Energy Conversion</strong></td>
<td>Van Nong, N.</td>
<td>01/01/2014 → 31/12/2018</td>
</tr>
<tr>
<td><strong>Elektrode Kinetics and Gas Conversion In Solid Oxide Cells</strong></td>
<td>Njodzefon, J., Hjelm, J., Graves, C. R., Weber, A., Hauch, A., Krügel, A. &amp; Schefold, J.</td>
<td>01/01/2014 → 20/04/2016</td>
</tr>
<tr>
<td><strong>Elektrokatalyse og Katalysatorer til Oxygenreduktion i Polymer Brændselceller</strong></td>
<td>Zhong, L., Li, Q., Cleemann, L. N., Jensen, J. O., Bjerrum, N. J., Steenberg, T. &amp; Steenberg, T.</td>
<td>01/01/2014 → 17/05/2017</td>
</tr>
<tr>
<td><strong>Materials for Energy Production</strong></td>
<td>Heckler, I. M., Bundgaard, E., Andreasen, J. W., Tanenbaum, D. M. &amp; Wang, E.</td>
<td>01/01/2014 → 26/04/2017</td>
</tr>
<tr>
<td><strong>Nano-carbons for versatile power supply modules</strong></td>
<td>Van Nong, N.</td>
<td>01/12/2013 → 30/09/2017</td>
</tr>
<tr>
<td><strong>Organic based photovoltaics with morphological control</strong></td>
<td>Zawacka, N. K., Jørgensen, M. &amp; Krebs, F. C.</td>
<td>01/10/2013 → 30/06/2015</td>
</tr>
</tbody>
</table>
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., Hummelshøj, 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
Beliatis, M.
31/10/2011 → 01/09/2012
Project

Kinetic studies and Computational Fluid Dynamics (CFD) simulations to aid in the development of Tantalum 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 200-400C
15/09/2011 → 11/03/2015
Project: PhD

Fremstilling og karakterisering af materiale og komponenter til mellemliggende temperatur brænselsceller 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., Geibstein, 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 analyses for functional food – Focus on 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
Howalt, J. G., Vegge, T., Bilgaard, T., Holtappels, P., Hammer, B. & Hellman, A.
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
Oksbjerg, B., Trofod, T., Bundgaard, E., Andreasen, J. W., Norrman, K., Krebs, F. C., Zawacka, N. K., Jørgensen, M.,
Angmo, D., Andersen, T. R., Bentzen, J. J. & Rossander, L. H.
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.
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., Marnellos, 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 photovoltaire 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
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., Gholina, A. & Ringgaard, E.
01/04/2009 → 30/09/2015
Project: PhD

Fremstilling og synteseanvendelse af elektrolytisk fremstillet hydrogen
01/03/2009 → 23/05/2012
Cathodes for solid Oxide Fuel Cells Operating at 400 C
15/02/2009 → 23/05/2012
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

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

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

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
Activity: Talks and presentations › Conference presentations

Keramiske membraner til ålbæst 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

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
Multiphase oxygen electrodes for solid oxide electrolysis cells
Tripkovic, D. (Speaker), Hendriksen, P. V. (Other), Mogensen, M. B. (Other)
22 Jun 2017

The 40th International IAEE Conference
Dominkovic, D. F. (Speaker)
21 Jun 2017

21st International Conference on Solid State Ionics
Esposito, V. (Organizer)
18 Jun 2017 → 23 Jun 2017

High ionic conductivity in confined heterostructures
Sanna, S. (Speaker)
18 Jun 2017 → 23 Jun 2017

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

Solid Oxide Electrolysis for Grid Balancing: Recent Achievements and Future Challenges
Chen, M. (Speaker)
13 Jun 2017 → 15 Jun 2017

Alkaline membrane electrolysis with PEM-level electrochemical performance
Kraglund, M. R. (Guest lecturer)
12 Jun 2017

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

Tutorial on high-throughput computations
Loftager, S. (Participant)
29 May 2017 → 31 May 2017

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), Crovetto, 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 brændselceller
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 LHON 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**
Teocoli, F. (Speaker)
22 Jan 2017 → 27 Jan 2017
Activity: Talks and presentations › Conference presentations

**21st World Hydrogen Energy Conference 2016**
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 › Business talks, 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

Nanoconfined 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

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. (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 LiFeBO$_3$ 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. (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 – Brændselsceller 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. í. (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 Dec 2015
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

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. (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
Vegge, T. (External examiner)
8 May 2015
Activity: Examinations and supervision › External examination

Brændselsceller og elektrolyse: 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 - Brændselceller 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 Hocheinstellung 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
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

Elchemas Data Acquisition: Software til impedansspektroskopi, cyklisk voltametri samt chronopotentiometr/ampereometr
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 elektrolyseceller 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

**18th International Microscopy Congress**
Bowen, J. R. (Speaker)
10 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

**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 energiuddfordringer
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

Elcheame 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 Solid 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
Smart Energy Conversion and Storage Conference
Mogensen, M. B. (Invited speaker)
2 Oct 2013
Activity: Talks and presentations › Conference presentations

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
Chrostensen, 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 Denamark 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
Biennow 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
Brændselsceller 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

12th 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): Risø/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.

Oxford Instruments EBSD Symposium
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.

Nanostructured materials for solid-state hydrogen storage - MPNS COST Action MP1103
Blanchard, D. (Speaker)
13 Feb 2012 → 15 Feb 2012
Activity: Talks and presentations › Conference presentations

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 committees, 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)
Peder sen, 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)
Peder sen, 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 nano inclusions: 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 plastisolceller
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 committees, commissions, boards, councils, associations, organisations, or similar

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 BehrensDr. 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 Røgaard 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
Rumforskning: Han skal sikre astronauter en returbillet fra Mars
Christopher R. Graves
17/05/2017
1 item of media coverage
Press / Media

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 keml i batterier øger muligheden for at lagre grøn energi
Tejs Vegge
20/02/2017
1 media contribution
Press / Media

Derfor 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 Dominković, 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 ene griteknologier
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
På falderebet: Siemens ude af el-færgeprojekt
Tejs Vegge
26/05/2015
1 media contribution
Press / Media

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 Hætte: 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