Novel Processing of Cathodes for Solid Oxide Fuel Cells
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2018 › Research › peer-review

Studies of A-site Deficient (Gd_{0.6}Sr_{0.4})_{1–x}Fe_{0.8}Co_{0.2}O_{3–δ} Cathodes in SOFCs
Hansen, K. K., 2018, In : Fuel Cells. 18, 1, p. 96-100
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

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

Cathode-supported hybrid direct carbon fuel cells
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Cone-Shaped Gd_{1–x}Sr_{x}Fe_{0.8}Co_{0.2}O_{3–δ} Electrodes for SOFC Cathodes
Research output: Contribution to journal › Letter – Annual report year: 2017 › Research › peer-review

Determination of the Resistance of Cone-Shaped Solid Electrodes
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Direct Coal Oxidation in Modified Solid Oxide Fuel Cells
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Effect of CeO2 Addition on Hybrid Direct Carbon Fuel Cell Performance
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Materials for Catalysis, Synthetic Fuels and Chemical Energy Conversion
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

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

Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Effect of pore formers on properties of tape cast porous sheets for electrochemical flue gas purification
Electrochemical Reduction of NO₂

Electrochemical removal of NOx using solid oxide cells

Fabrication of doped Titania (TiO2) nanofibers to serve as catalysts in NH3-Selective CatalyticReduction (SCR)

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.

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

New Hypothesis for SOFC Ceramic Oxygen Electrode Mechanisms

Catalytic Enhancement of Carbon Black and Coal-Fueled Hybrid Direct Carbon Fuel Cells

Direct Coal Oxidation in Modified Solid Oxide Fuel Cells

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

Electrochemical reduction of NO with propene in the presence of oxygen on LSCoM/CGO porous cell stacks impregnated with BaO

Enhancing hybrid direct carbon fuel cell anode performance using Ag₂O
Erratum: In Situ Studies of Fe$^{4+}$ Stability in β-Li$_3$Fe$_2$(PO$_4$)$_3$ Cathodes for Li Ion Batteries
Research output: Contribution to journal › Comment/debate – Annual report year: 2015 › Research › peer-review

Fabrication of doped Titania (TiO$_2$) nano-catalysts in the shape of nanofibers
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Hybrid direct carbon fuel cell anode processes investigated using a 3-electrode half-cell setup
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Hybrid Direct Carbon Fuel Cell Performance with Anode Current Collector Material
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

In Situ Studies of Fe$^{4+}$ Stability in β-Li$_3$Fe$_2$(PO$_4$)$_3$ Cathodes for Li Ion Batteries
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Method and system for the purification of exhaust gas with an electrochemical cell

Nano scaled electro catalysts, a versatile concept for novel solid state fuel cells and electro-catalytic reactors
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

NO$_x$ Conversion of Porous LSF$_{15}$-CGO$_{10}$ Cell Stacks
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Catalytic Enhancement of Solid Carbon Oxidation in HDCFCs
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Catalytic Enhancement of Solid Carbon Oxidation in HDCFCs
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2014 › Research › peer-review

Effect of CeO$_2$ Infiltration on Hybrid Direct Carbon Fuel Cell Performance
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Effect of Co3O4 and CeO2 Infiltration on the Activity of a LSM15/GDC10 Highly Porous Electrochemical Reactor
Electrochemical Oxidation of Propene with a LSF15/CGO10 Electrochemical Reactor

Electrochemical Reduction of Oxygen and Nitric Oxide at Low Temperature on La$_{1-x}$Sr$_x$FeO$_{3-\delta}$ Cathodes

HDCFC Performance as a Function of Anode Atmosphere (N$_2$-CO$_2$)

High Performance Infiltrated Backbones for Cathode-Supported SOFC's
Gil, V. & Kammer Hansen, K., 2014, In : ECS Transactions. 64, 2, p. 41-51

Hybrid direct carbon fuel cells and their reaction mechanisms - a review

Impedance Spectroscopy and Catalytic Activity Characterization of a La$_{0.85}$Sr$_{0.15}$MnO$_3$/Ce$_{0.9}$Gd$_{0.1}$O$_{1.95}$ Electrochemical Reactor for the Oxidation of Propene

Removal of NO$_x$ with Porous Cell Stacks with La$_{0.85}$Sr$_{0.15}$Co$_x$Mn$_{1-x}$O$_{3+\delta}$/Ce$_{0.9}$Gd$_{0.1}$O$_{1.95}$ Electrodes Infiltrated with BaO

A combined SEM, CV and EIS study of multi-layered porous ceramic reactors for flue gas purification

Characterization of LSM/CGO Symmetric Cells Modified by NOx Adsorbents for Electrochemical NOx Removal with Impedance Spectroscopy

Effect of Infiltration Material on a LSF$_{15}$/CGO$_{10}$ Electrochemical Reactor in the Electrochemical Oxidation of Propene

Electrochemical NO$_x$ reduction on an LSM/CGO symmetric cell modified by NO$_x$ adsorbents
Shao, J. & Kammer Hansen, K., 2013, In : Journal of Materials Chemistry A. 1, 1, p. 7137-7146
Electrochemical reduction of oxygen and nitric oxide at low temperature on Ce_{1-x}Pr_{x}O_{2-δ} cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Electrochemical Reduction of Oxygen and Nitric oxide at low Temperature on La_{1−x}Sr_{x}Cr_{0.97}V_{0.03}O_{3−δ} Cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Electrochemical reduction of oxygen and nitric oxide at low temperature on La_{1−x}Sr_{x}MnO_{3+δ} cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Enhancement of NOx removal performance for (La_{0.85}Sr_{0.15})_{0.99}MnO_{3}/Ce_{0.9}Gd_{0.1}O_{1.95} electrochemical cells by NOx storage/reduction adsorption layers
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Fabrication and Characterization of multi-layer ceramics for electrochemical flue gas purification
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Fabrication of highly porous LSM/CGO cell stacks for electrochemical flue gas purification
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

In Situ Study of High Voltage Performance of Li_{3}Fe_{2}(PO_{4})_{3} Cathodes for Li ion batteries
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2013 › Research › peer-review

NOx reduction on Ag electrochemical cells with a K-Pt-Al 2O3 adsorption layer
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Production of a half cell with a LSM/CGO support for electrochemical flue gas purification
Andersen, K. B. & Kammer Hansen, K., 2013, In : Ceramics International. 39, 8, p. 8649-8655
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

A combined SEM and CV Study of Solid Oxide Fuel Cell Interconnect Steels
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Diffuse Reflectance Infrared Fourier Transform Study of NOx Adsorption on CGO10 Impregnated with K2O or BaO
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Electrochemical oxidation of propene by use of LSM_{15}/CGO_{10} electrochemical reactor
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review
Electrochemical testing of composite electrodes of \((\text{La}_{1-x}\text{Sr}_x\text{MnO}_3)\) and doped ceria in NO-containing atmosphere
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

\textit{NO}x conversion on LSM15-CGO10 cell stacks with BaO impregnation
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

\textit{NO}x-conversion on Porous LSF15-CGO10 Cell Stacks with KNO3 or K2O Impregnation
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Optimization of an electrochemical cell with an adsorption layer for NOx removal
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Pore former induced porosity in LSM/CGO cathodes for electrochemical cells for flue gas purification
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Improvement of LSM15-CGO10 electrodes for electrochemical removal of NOx by KNO3 and MnOx impregnation
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Low temperature reduction of NO and O2 on A-site deficient \((\text{Pr}_{0.6}\text{Sr}_{0.4})_{1-x}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_3-\delta\) perovskites
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Optimizing the Performance of Porous Electrochemical Cells for Flue Gas Purification using the DOE method
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Ceria and strontium titanate based electrodes
Research output: Patent › Patent – Annual report year: 2010 › Research

Characterization of \((\text{La}_{1-x}\text{Sr}_x\text{MnO}_3)\text{Doped Ceria Composite Electrodes in NO}_x\text{-Containing Atmosphere with Impedance Spectroscopy}
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Composite Material Suitable for Use as Electrode Material in a SOC
Research output: Patent › Patent – Annual report year: 2010 › Research

Effect of impregnation of \(\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3\)Yttria Stabilized Zirconia Solid Oxide Fuel Cell cathodes with \(\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3\) or \(\text{Al}_2\text{O}_3\) nano-particles
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review
The Effect of a CGO Barrier Layer on the Performance of LSM/YSZ SOFC Cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

The effect of A-site deficiency on the performance of La1-sFe0.4Ni0.6O3-delta cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

An EIS study of La2-aEuro parts per thousand x Sr (x) NiO4+ (delta) SOFC cathodes
Kammer Hansen, K., 2009, In : Ionics. 15, 3, p. 325-328
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

An EIS study of La2-aEuro parts per thousand x Sr (x) NiO4+ SOFC cathodes
Kammer Hansen, K., 2009, In : Ionics. 15, 3, p. 325-328
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

A-Site Deficient (Pr0.6Sr0.4)(1-s)Fe0.8Co0.2O3-delta Perovskites as Solid Oxide Fuel Cell Cathodes
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Characterization of MgMnxFe2-xO4 as a possible cathode material for electrochemical reduction of NOx
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Electrochemical characterization and redox behavior of Nb-doped SrTiO3
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Electrochemical reduction of NO on La2-xSrxCuO4 based electrodes
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Processing and characterization of porous electrochemical cells for flue gas purification
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

The NiFe2O4-MgFe2O4 series as electrode materials for electrochemical reduction of NOx
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Defect and electrical transport properties of Nb-doped SrTiO3
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Electrochemical cell for removing NOx and soot from diesel exhaust
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research

Electrochemical reduction of NO and O2 on La2-xSrxCuO4-based electrodes
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review
New methods for removal of soot and NOx
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Niobium-doped strontium titanates as SOFC anodes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Processing of Ca1-xGdxO2-delta (GDC) thin films from precursors for application in solid oxide fuel cells
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Spinel as cathodes for the electrochemical reduction of O2 and NO
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Spinel-type electrode materials for purification of exhaust gasses from diesel fired engines
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Effects of Sr/Ti-ratio in SrTiO3-based SOFC anodes investigated by the use of cone-shaped electrodes
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Electrical and electro-chemical characterisation of La0.99Fe1-xNixO3−δ perovskites
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Electrochemical reduction of NOx on spinel-type materials
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Novel ceramic anodes for solid oxide fuel cells investigated by cone shaped electrodes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Studies of Fe-Co based perovskite cathodes with different A-site cations
Kammer Hansen, K., 2006, In : Solid State Ionics. 177, 11-12, p. 1047-1051
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

A study of Pr0.7Sr0.3Fe1−xNixO3−δ as a cathode material for SOFCs with intermediate operating temperature
Ceria revisited: Electrolyte or electrode material?

Charge disproportionation in $(X_{0.6}Sr_{0.4})_{0.99}Fe_{0.8}Co_{0.2}O_3-\delta$ perovskites (X = La, Pr, Sm, Gd)

Electro-catalytic processes studied by the use of point electrodes

Electrochemical DeNOx in solid electrolyte cells - an overview

LSFM perovskites as cathodes for the electrochemical reduction of NO

Oxidation of methane and hydrogen on $Ce_{1-x}GdxO_2-\delta$ fluorites

Perovskites as electrodes and catalysts
Kammer Hansen, K., 2005.

Solid state electrochemistry. Proceedings

Structural characterization of A-site deficient strontium titanate by the use of cone shaped electrodes, electron microscopy, and XRD

A study of $Pr_{0.7}Sr_{0.3}Fe_{1-x}Ni_{x}O_3$ as a cathode material for intermediate temperature operating SOFCs
A study of Pr$_{0.7}$Sr$_{0.3}$Fe$_{1-x}$Ni$_x$O$_{3-\delta}$ as an SOFC cathode material
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

Fastoxid-brændselscell - en elektrokemisk reaktor
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

Oxidation of methane on oxides
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

SOFC - an electrochemical reactor
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Conversion of hydrocarbons in solid oxide fuel cells
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Electrodes for oxidation of methane
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Improvement of LSM cathode for high power density SOFCs
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Development of thin-electrolyte solid oxide fuel cells
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Electrochemical gas cleaning
Kammer Hansen, K., 2002.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2002 › Research

Strategies for testing of solid oxide fuel cells and electrodes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Working electrode for electrochemical reactor comprises electric conductive ceramic oxide material
Perovskites as catalysts for the selective catalytic reduction of nitric oxide with propene: Relationship between solid state properties and catalytic activity
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Electrochemical Exhaust Gas Purification
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2000 › Research › peer-review

Electrochemical Reduction of NO and O₂ on Cu/CuO
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Electrochemical Reduction of NO and O₂ on Oxide Based Electrodes
Research output: Contribution to journal › Conference article – Annual report year: 2000 › Research › peer-review

Perovskites as Cathodes for Nitric Oxide Reduction
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Electrochemical Reactor for Exhaust Gas Purification
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Mechanochemical synthesis of Fe-S materials.
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Lithium Insertion into Iron Sulfides
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research