Posters Program of the EUROPEAN FUEL CELL FORUM 2009

PEMFC Applications

PEMFC Stack Development in Spain for Portable and Low Power Applications: the CEGASA/CIDETEC-IK4 Experience

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Process Analysis of Fuel Cell Systems for Application in Aircraft

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Fuel Cell System for Solar Boat Battery-Extender – BZ-BattExt

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PEMFC: Cells and Components

Optimal PTFE Content in Micro Porous Layer on Cathode of Polymer Electrolyte Membrane Fuel Cell with Different GDM Types

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Sulfonated Poly(arylene Ether Sulfone)-Based Organic/Inorganic Composite Membranes for Polymer Electrolyte Membrane Fuel Cells

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Cross-Linked PEEK Proton Exchange Membranes for Fuel Cell

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Carbon Nanofiber Growth on Graphite Disks and Paper for Fuel Cells

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Performance of Different Coatings for Aluminium Bipolar Plates

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Proton Conductivity Study of the Family of the Zeolites Molecular Sieves for PEM Fuel Cell Applications

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New Catalysts Support for Alkaline Fuel Cells

Fabrice Bidault, Dan Brett, Hugh Middleton, Nigel Brandon
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PEMFC Control Strategies, Modeling and Characterization

Dynamic Modeling of CO Poisoning in PBI-Based HTPEM Fuel Cells

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Effect of the Relative Position Oxygen-Hydrogen Plate Channels on a PEMFC Performance

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Modeling of PEMFC 2-Phase Transport and Operation for Control Strategy Development and Diagnosis

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In Situ Determination of Temperature Distribution in Three Cell PEM Fuel Cell Stack

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Microstructure Analysis and Calculation of Thermal Conductivity of Gas Diffusion Layers of PEM Fuel Cells

Andreas Pfrang, Damien Veyret
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Experimental and Numerical Analysis of the Dynamic Behaviour of a PEMFC Fed by Reformate

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Protonics

Synthesis, Characterization and Stacking of Novel High Temperature Proton Conducting Fuel Cells

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HT Fuel Cell Systems and Balance of Plant

Development of a TurboCharger with Air Foil Bearing for 250 kW MCFC System

Jun Young Park, Young Chul Kim, Moo Ryong Park, Kook Young Ahn
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An Experimental Study on the Design of the Off-Gas Catalytic Combustor for MCFC Applications

Sang Min Lee, Dongjin Hong, Man Young Kim, Kook Young Ahn
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Development of BoP Components for High Temperature Fuel Cell Systems

Stefan Voss, Alexandra Loukou, Dimosthenis Trimis
TU Bergakademie Freiberg, Freiberg / Germany

Optimised High Temperature Insulation for Fuel Cell Applications

Josef Kloo, Steven Heytens
Microtherm NV, Sint Niklaas / Belgium

Dynamic Operation of Internal Reforming Fuel Cells to Compensate Fluctuating Renewable Energy Sources

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SOFC: Cells and Components

Longterm Stability of Conductive Ceramic Coatings for Metallic Interconnects in SOFCs

Seong-Soo Pyo, Seung-Bok Lee, Tak-Hyoung Lim, Rak-Hyun Song, Dong-Ryul Shin
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Induction Brazing for Gas Sealing and Joint Properties of Anode-Supported Tubular-Type SOFCs

Yeon-Hyuk Heo, Seung-Bok Lee, Rak-Hyun Song, Dong-Ryul Shin
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Precursor Particle Size vs. Ionic Radii in Rare Earth Doped Ceria: A Remarkable Gaussian Correlation

Antonio J. Dos Santos-García, Carlos Sánchez-Bautista, Jesús Canales-Vázquez
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Design, Characterization and Performance of Glass Ceramic Sealants for Planar SOFCs

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Effect of Precious Metal Addition to Ni-YSZ Anode on Internal Reforming of n-Butane and Power Efficiency in n-Butane Driven SOFC System

Gyujong Bae, Yongmin Kim, Joongmyeon Bae
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Evaluation of Doped Ceria Interlayer in Contact with Stabilised Zirconia at Different Atmospheres in SOFCs Cells

Ana Martínez-Amesti, Aitor Larrañaga, Lide M. Rodriguez-Martínez, Maria Isabel Arriortua
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Microstructural Evolution and Sintering Behaviour of Nanostructured Yttria Stabilized Zirconia

Cristiane Abrantes da Silva, José Geraldo de Melo Furtado, Paulo Emílio V. de Miranda
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Effect of Doping Level x in $Ln_{1-x}M_xFeO_{3-\delta}$ SOFC Cathodes

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Electrochemical Properties of Electrode-Supported $La_{0.75}$ $Sr_{0.25}$ $Ga_{0.8}$ $Mg_{0.16}$ $Fe_{0.04}$ O_{3-d} Solid Oxide Fuel Cells

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The Physicochemical Properties of Chromia-Forming Stainless Steel Coated with Mn-Based Spinel Thick Films in the Cathodic Atmosphere of SOFC

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Cyclic Oxidation of $(La,Sr)(Cr,V)O_3$ Coated Crofer 22 APU Alloy for SOFC Interconnects

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Preparation and Performance of SOFC Electrolytes from Samaria Doped Ceria Nanopowders

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SOFC Functional Anode for the Direct Oxidation of Ethanol

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Electrical Properties of Oxygen Vacancy Conducting Solid Electrolyte Ceramics in the Microwave Region

Antanas Feliksas Orliukas, Julius Dudonis, Giedrius Laukaitis, Darius Milčius, Tomas Šalkus, Algimantas Kežionis
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Evaluation of Different System Configurations for Solid Oxide Fuel Cell-Based Micro-CHP Generators in Residential Applications

Vincenzo Liso, Mads Pagh Nielsen, Søren Knudsen Kær
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Electrochemical Performance of Ni-$LaNbO_4$ Cermets as Potential Anode Materials for Novel High Temperature Proton-Conducting SOFCs

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CENIT DEIMOS Project: "Development and Innovation in Proton Exchange Membrane and Solid Oxide Fuel Cells"

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Hydrogen and Reforming

Performance Analysis on Hydrogen Station for Fuel Cell Vehicle

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Hydrogen Production by Steam Electolysis with Flat-Tubular SOEC

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Using Ceria Sol Washcoated Copper Catalyst in a Micro-Channel Reactor for Steam Reforming of Methanol

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Evaluation of Integrated Hydrogen Systems. IEA Task 18

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Bio-Hydrogen and Bio-Methane from Anaerobic Digestion Feeding an SOFC

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Fuel Cells for Direct Fuel Conversion

Operating Characteristics and Dynamic Behaviours of 5W Stack for Micro DMFC

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Modelling the Dynamic Effects of Catalyst Poisoning and Mixed Potential Formation in a DMFC

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Characterization and Performance of Direct Methanol Fuel Cell with Radiation-Grafted Membranes

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Methanol Electro-Oxidation on Pt-Ru-P/C and Pt-Ru-P/MWCNT in Acidic Medium

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Novel SPEEK-Based Composite Membranes for Direct Methanol Fuel Cell Application

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General Issues

A New Approach to a Flexible Power System

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Search of Fuel Cell Patents in Patent Databases

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Development of a Real Time Fuel Cell Test Rig Control System

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