Impact of iron and hydrogen peroxide on membrane degradation for polymer electrolyte membrane water electrolysis: Computational and experimental investigation on fluoride emission

Fault Characterization of a Proton Exchange Membrane Fuel Cell Stack

Modelling and Experimental Analysis of a Polymer Electrolyte Membrane Water Electrolysis Cell at Different Operating Temperatures

Investigating different break-in procedures for reformed methanol high temperature proton exchange membrane fuel cells

Model-supported analysis of degradation phenomena of a PEM water electrolysis cell under dynamic operation

Model-supported characterization of a PEM water electrolysis cell for the effect of compression

New load cycling strategy for enhanced durability of high temperature proton exchange membrane fuel cell

Fault detection and isolation of high temperature proton exchange membrane fuel cell stack under the influence of degradation

Impedance characterization of high temperature proton exchange membrane fuel cell stack under the influence of carbon monoxide and methanol vapor
**Parametric Sensitivity Tests - European PEM Fuel Cell Stack Test Procedures**

**Performance Degradation Tests of Phosphoric Acid Doped PBI Membrane Based High Temperature PEM Fuel Cells**

**Impedance Analysis of the Conditioning of PBI-Based Electrode Membrane Assemblies for High Temperature PEM Fuel Cells**

**Experimental Characterization of the Poisoning Effects of Methanol-Based Reformate Impurities on a PBI-Based High Temperature PEM Fuel Cell**

**Vapor Delivery Systems for the Study of the Effects of Reformate Gas Impurities in HT-PEM Fuel Cells**

**High Temperature PEM Fuel Cells - Degradation and Durability**

**Investigating the effects of methanol-water vapor mixture on a PBI-based high temperature PEM fuel cell**

**Vapor Delivery Systems for the Study of the Effects of Reformate Gas Impurities in HT-PEM Fuel Cells**

**EIS Characterization of the Poisoning Effects of CO and CO2 on a PBI based HT-PEM Fuel Cell**

**Activities**

**Preparation of Research Plan for PhDs: PhD Planning**
Samuel Simon Araya (Lecturer)
29 Sep 2014

**Combustion Technology and Chemical Reactors: Chemical Reactors**
Samuel Simon Araya (Lecturer)
Sep 2014 → Jan 2015

**Future energy systems**
Samuel Simon Araya (Lecturer)
Preparation of Research Plan for PhDs: PhD Planning
Samuel Simon Araya (Lecturer)
31 Mar 2014

Combustion Technology and Chemical Reactors: Chemical Reactors
Samuel Simon Araya (Lecturer)
Sep 2013 → Jan 2014

Future energy systems
Samuel Simon Araya (Lecturer)
Jul 2013

Future energy systems
Samuel Simon Araya (Lecturer)
Aug 2012

Energy and Environment
Samuel Simon Araya (Lecturer)
15 Mar 2012

Analysis of CH3OH, CO, CO2 and Water Vapor In a H3PO4/PBI-based HT-PEMFC by Means of EIS
Samuel Simon Araya (Speaker)
7 Aug 2011 → 10 Aug 2011