

Program

3rd International Workshop on Hydrogen and Fuel Cell

1 Lecture of cutting edge

Chemical design of nanomaterials for energy and environmental applications

Yoshiyuki Kuroda, Yokohama National University

HySA system 1kWe CHP system

Cordellia Sita, University of the Western Cape

2 Poster session

P1 LONG-TERM STORAGE AND DISTRIBUTION OF HYDROGEN WITH IRON-BASED OXYGEN CARRIER MATERIALS

Sebastian Bock, Graz University of Technology

P2 DETECTION OF CRITICAL CONDITIONS IN POLYMER ELECTROLYTE FUEL CELLS USING IMPEDANCE SPECTROSCOPY AND TOTAL HARMONIC DISTORTION ANALYSIS

Kurt Mayer, Graz University of Technology

P3 INFLUENCE OF FEED GAS COMPOSITION ON REDUCTION REACTION FOR FIXED BED STEAM - IRON PROCESS

Verena Martschitsch, Graz University of Technology

P4 ANODE CATALYSTS FOR THE ALKALINE DEFC TESTED IN A SINGLE CELL USING POLYBENZIMIDAZOLE MEMBRANE

Johanna Ranninger, Graz University of Technology

P5 FUNCTIONALIZED CATALYSTS FOR THE OXYGEN REDUCTION REACTION IN HIGH TEMPERATURE PEM FUEL CELLS

Katharina Kocher, Graz University of Technology

P6 EXERGY ANALYSIS OF A POLYMER ELECTROLYTE FUEL CELL (PEFC)

Turgay Koroglu, Graz University of Technology

- P7 PERFORMANCE ANALYSIS OF STAND-ALONE HT-PEMFCS BASED TRIGENERATION SYSTEM FOR RESIDENTIAL APPLICATION
Suthida Authayanun, Srinakharinwirot University
- P8 A research about numerical analysis of gas-liquid two-phase flow in the Gas Channel considering of the GDL
Wang Lida, Yokohama National University
- P9 DEVELOPMENT OF CONDUCTIVE OXIDE AS CATALYST SUPPORT OF PRECIOUS -METAL-FREE OXIDE BASED CATHODE FOR PEFC
Hikaru Igarashi, Yokohama National University
- P10 EFFECTS OF ION EXCHANGE CAPACITY ON TOLUENE PERMEABILITY IN PROTON EXCHANGE MEMBRANE
Keisuke Tanimoto, Yokohama National University
- P11 ELECTROCONDUCTIVE TITANIUM OXIDE AS SUPPORT MATERIAL OF OXYGEN EVOLUTION ELECTRODE IN ACIDIC ELECTROLYTE
Masayuki Nagai, Yokohama National University
- P12 MORPHOLOGY-CONTROLLED TITANIUM OXIDE NANO-PARTICLES AS SUPPORTS OF CATHODE CATALYSTS FOR POLYMER ELECTROLYTE FUEL CELLS
Yongbin Ma, Yokohama National University
- P13 CATALYTIC ACTIVITY AND DURABILITY FOR OXYGEN EVOLUTION ON La-Ni-O/Ni FOR ALKALINE WATER ELECTROLYSIS UNDER POTENTIAL CYCLING
Yudai Tsukada, Yokohama National University
- P14 EFFECT OF CONDUCTIVE SUBSTANCE ADDITION TO NB-DOPED TITANIUM OXIDES AS NON-PLATINUM OXIDE-BASED CATHODES FOR PEFC
Tsubasa Tokai, Yokohama National University
- P15 MODEL ELECTRODE OF OXYGEN REDUCTION CATALYST FOR PEFC BASED ON TITANIUM OXIDE BY ARC PLASMA DEPOSITION
Kaoru Nagano, Yokohama National University
- P16 A VISUALIZATION TECHNIQUE DEVELOPMENT FOR UNSTEADY HYDROGEN CONCENTRATION DISTRIBUTION IN POROUS MATERIALS
Konosuke Watanabe, Yokohama National University

P17 MEASUREMENT OF TEMPERATURE DISTRIBUTIONS OF A MICRO-TUBULAR SOEC DURING H₂O/CO₂ CO-ELECTROLYSIS

Atsushi Maeda, Yokohama National University

P18 CONJUGATE ANALYSIS OF HEAT-SPECIES-CHARGE TRANSPORT AND CATALYST OXIDATION IN PEMFC

Satoshi Nishimura, Yokohama National University

P19 IN-SITU MEASUREMENTS OF HUMIDITY IN A PEMFC CHANNEL USING MEMS SENSORS

Noriyoshi Hasegawa, Yokohama National University

P20 ANALYSIS OF VISUALIZATION ABOUT EFFECT OF GDL CONFIGURATION ON WATER DISTRIBUTION INSIDE PEFC

Yusuke Tamada, Yokohama National University