Poster #	Title	Author List	Organization
FCP1	Understanding Droplet Removal on Fuel-Cell Gas-Diffusion Layers	P.K. Das, A. Grippin, A.Z.Weber	Lawrence Berkeley National Laboratory
FCP2	Impact of Compression on Water Uptake of Perfluorosulfonic-Acid Membranes	A. Kusoglu and A.Z.Weber	Lawrence Berkeley National Laboratory
FCP3	Fundamental Investigation of the Effects of Ink Formulation on the Membrane Electrode Assembly Performance of Polymer Electrolyte Fuel Cells	Fan Xu, Hang-Yu Zhang, Jan Ilavsky, Derek Ho, Matthew J. Justice, Horia I. Petrache, Lia Stanciu and Jian Xie	Indiana University - Purdue University Indianapolis (IUPUI), Purdue University, Argonne National Laboratory, National Institute of Standards and Technology
FCP4	Degradation of Nafion Ionomer Network in PEFC Catalyst Layers Studied by 3 D TEM	Fan Xu, Daric Fitzwater, Hong-fang Sun, Eric A. Stach, Jian Xie	Indiana University-Purdue University, Purdue University
FCP5	Interaction of Nafion Particles and Carbon Aggregates in Catalyst Inks	Fan Xu, Hang-Yu Zhang, Jan Ilavsky, Derek Ho, Matthew J. Justice, Horia I. Petrache, Lia Stanciu, and Jian Xie	Indiana University - Purdue University Indianapolis (IUPUI), Purdue University, Argonne National Laboratory, National Institute of Standards and Technology
FCP6	Investigation of Pt-C Interaction on Stability of Pt/C Catalysts in Polymer Electrolyte Fuel Cells (PEFCs)	Meixian Wang, Fan Xu, Ruihua Cheng, and Jian Xie	Indiana University-Purdue University (IUPUI)
FCP7	Microscopy of Catalyst-Support Interactions in PEM Fuel Cell Electrodes	K.L. More, J.C. Idrobo, Kelly Perry, and K.S. Reeves	Oak Ridge National Laboratory
FCP8	High Pt loading hierarchical nanostructured carbon as an efficient electrocatalysts in proton exchange membrane fuel cell	Jung Ho Kim, Min Young Song, Min-Sik Kim, Daesoo Yang and Jong-Sung Yu*	Korea University
FCP9	Advanced Pt-bimetallic Alloy Electrocatalysts	Chao Wang, Dongguo Li, Nenad M. Markovic, Vojislav R. Stamenkovic	Argonne National Laboratory
FCP10	New PE-based PEMs and AEMs with High Ionic Conductivity	Min Zhang, Hyung Kyu Kim, Elena Chalkova, Fedkin Mark, Serguei N. Lvov, and T. C. Mike Chung	The Pennsylvania State University

FCP11	Hydrophilicity/porous structure-tuned, SiO_2/polyetherimide-coated polyimide nonwoven porous substrates for reinforced composite proton exchange membranes	Jung-Ran Lee, Ji-Hye Won, Na-Young Kim, Moo-Seok Lee, Sang-Young Lee	Kangwon National University
FCP12	Effect of Load Cycles on Fuel Cell Durability	S. Arisetty, X. Wang, R. K. Ahluwalia	Argonne National Laboratory
FCP13	Ex-situ Potentiostatic and Potentiodynamic Durability of Low Pt Loading fuel cell MEAs	Ram Subbaraman, Xiaoping Wang, Xiaohua Wang, N.Kariuki, D.Myers, and R.K. Ahluwalia	Argonne National Laboratory
FCP14	Evaluation of Oxygen Evolution Electrocatalysts for PEM Electrolyzers	Nemanja Danilovic, Nenad Markovic, and Debbie Myers	Argonne National Laboratory
FCP15	High Surface Area Graphenes for PEFC and Supercapacitor Applications	Meixian Wang, Fan Xu, Qi Liu, Hao He and Jian Xie	Indiana University-Purdue University (IUPUI)
FCP16	U.S. Department of Energy Fuel Cell Catalyst Development Activities	J. P. Kopasz, T G. Benjamin, W. F. Podolski, K. Epping-Martin, N. L. Garland, D. L. Ho, and D. Papageorgopoulos	Argonne National Laboratory and U.S. Department of Energy
FCP17	High temperature proton exchange membrane fuel cells based on Nafion/SiO_2 composite membranes	Xiaojin Li ,Changchun Ke, Zhigang Shao and Baolian Yi	Dalian Institute of Chemical Physics
FCP18	Proton Conducting Composite Membranes Based on Nafion and Core-Shell Structured Particles for Direct Methanol Fuel Cell	Jae-Hong Kim, Sang-Kyung Kim, Kidon Nam,Yongku Kang, Dong-Won Kim	Hanyang University, Korea Institute of Energy Research, and Korea Research Institute of Chemical Technology
FCP19	Dendrionized Polymer Electrolytes	S-W.Choi, S.G.Niyogi, J.P.Kopasz and D.J.Myers	Argonne National laboratory
FCP20	Studies on DMFCs exposed to repetitive freezing/thawing cycles	A.H.A. Monteverde Videla, G.G. Lenzi, C. Francia, U.A. Icardi, S. Specchia	Politecnico di Torino, Universidade Estadual de Maringá, HySyLab – Torino
FCP21	Modeling Electrochemically Active Surface Area Loss in Supported Pt Nanoparticle Catalysts	Steven G. Rinaldo, Wendy Lee, Jürgen Stumper, and Michael Eikerling	Simon Fraser University, Automotive Fuel Cell Cooperation Corporation

FCP22	Fundamental Studies of Platinum Electrocatalyst Degradation	Xiaoping Wang, Deborah J. Myers, James Gilbert, A. Jeremy Kropf, Matthew Smith, Nancy Kariuki, Ram Subbaraman, Sarah Ball, Jonathan Sharman, Brian Theobald, and Graham Hards	Argonne National Laboratory, Johnson Matthey Fuel Cells
FCP23	Metal-containing Porous Organic Polymer for Oxygen Reduction Reaction	Shengwen Yuan, Gabriel A. Goenaga, and Di-Jia Liu	Argonne National Laboratory
FCP24	Composite-Coated Aluminum Bipolar Plates for PEM Fuel Cells	Jennifer Mawdsley, J. David Carter, Suhas Niyogi, Xiaoping Wang, and Rasit Koc	Argonne National Laboratory, Southern Illinois University Carbondale
FCP25	Monodisperse Pt_3Ni Nanoactahedra as Practical Fuel Cell Catalysts: Improving Catalytic Activity for Oxygen Electroreduction	Hongzhou Yang, Jinfong Pan, Zewei Quan, Jiye Fang, Shouzhong Zou	State University of New York at Binghamton
FCP26	BB-SFG Study of the Mechanism of Ethanol Electrooxidation in Alkaline Media	Robert B. Kutz, Björn Braunschweig, Prabuddha Mukherjee, Dana D. Dlott, and Andrzej Wieckowski	University of Illinois at Urbana-Champaign
FCP27	High Pt loading hierarchical nanostructured carbon as an efficient electrocatalysts in proton exchange membrane fuel cell	Jung Ho Kim, Min Young Song, Min-Sik Kim, Daesoo Yang and Jong-Sung Yu*	Korea University
FCP28	Oxygen Reduction Reaction Electrocatalytic Activity of Glancing Angle Deposited Platinum Nanorod Arrays	Wisam J. Khudhayer, Nancy Kariuki, Xiaoping Wang, Deborah J. Myers, Ali U. Shaikh, and Tansel Karabacak	University of Arkansas at Little Rock, Argonne National Laboratory
FCP30	Metal-Organic Frameworks as Precursors in Preparing Electrocatalysts for Oxygen Reduction Reaction	Dan Zhao, Nickolas C. Kirkner, Shengqian Ma, Gabriel A. Goenaga, and Di-Jia Liu	Argonne National Laboratory, University of South Florida, University of Tennessee, Knoxville
FCP31	Chemical Approaches to the Precise Modification of Carbon Surfaces in Heterogenous Catalysts for ORR	Ashesh S. Belapure, Chinmay N. Dabke, Andrew D. Hix, Gabriel Goenaga, Alex Papandrew, Tom Zawodzinski, Shane Foister	University of Tennessee-Knoxville, Oak Ridge National Laboratory
FCP32	Effect of Backbone Polarity on Water-free Proton Conductivity of Triazole Containing Polymers	Doyle, R.P. Granados-Focil S.	Clark University

FCP33	Performance Degradation and Microstructure Changes in Freeze-Thaw Cycling for PEMFC MEAs with Various Initial Microstructures	J.H. Jang, S.-Y. Lee[1], H.-J. Kim, E.A. Cho, S.-K. Kim, H. Dirk, K.-S. Lee, M.K. Cho, I. C. Hwang, and T.-H. Lim	Korea Institute of Science and Technology (KIST), Hyundai-Kia Motors
FCP34	Effect of Nafion Ionomer and Catalyst in Cathode Layers for the Direct Formic Acid Fuel Cell with Complex Capacitance Analysis on the Ionic Resistance	J.H. Jang, S. Kim, J. Han,Y. Kwon, S.-K. Kim, K.-S. Lee, B.S. Lee, and T.-H. Lim	Korea Institute of Science and Technology (KIST), Seoul National University of Science and Technology
FCP35	Nanostructured Fuel Cell Electrocatalysts: Synthesis and Characterization	N. N. Kariuki; J. Gurneau; I. C. Welsh; X. Wang; and D. J. Myers	Argonne National Laboratory
FCP36	Investigation of Acidity Effect on Proton Exchange Membrane Fuel Cells	Ying Chang, Marilyn Hawley, Yu Seung Kim, and Chulsung Bae	University of Nevada Las Vegas, Los Alamos National Laboratory
FCP37	Novel tetrasulfonated poly(arylene biphenylsulfone ether) block copolymers as ion conducting electrolytes for proton exchange membranes	Dong Jin Yoo, Seung Hak Hyeon, Ae Rhan Kim, Ji Young Chu, Kyu Ha Lee, and Kee Suk Nahm	Chonbuk National University
FCP38	Microscopy of Catalyst-Support Interactions in PEM Fuel Cell Electrodes	K.L. More, J.C. Idrobo, Kelly Perry, and K.S. Reeves	Oak Ridge National Laboratory
FCP39	Artificial Neural Network-Based Model for Polymer Electrolyte Fuel Cells	Antti Lajunen, Xiaohua Wang, and Rajesh Ahluwalia	Aalto University, Argonne National Laboratory
FCP40	Several Different Cation Chemistries for Anion Exchange Membranes	Christopher G. Arges, Min-Suk Jung, Javier Parrondo, and Vijay Ramani	Illinois Institute of Technology
FCP41	Natural Phosphate Modified Iron Electrodes For The Anode of the Glucose Fuel Cell	R. Najih, A. Chtaini*	Université Sultan Moulay Slimane
FCP42	Probing the ionomer structure/property in PEFC catalyst layer: Characterization of Nafion films adsorbed on SiO2 substrate	Kunal Karan and Devproshad Paul	Queen's University at Kingston
FCP43	Molecular Modleing of Water Percolation and Proton Transport Dynamics in Polymer Electrolyte Membranes	Nagesh Idupulapati, Ram Devanathan, and Michel Dupuis	Pacific Northwest National Laboratory
FCP45	Effect of Air Contaminants on Performance of Polymer Electrolyte Fuel Cells	Xuhai Wang, Xiaohua Wang, and Rajesh K. Ahluwalia	Argonne National Laboratory

FCP46	Experimental Estimation of Reaction Order of Oxygen Reduction Reaction on Pt(111) single crystal	K. Kodama, R. Jinnouchi, T. Nagai, T. Hatanaka, Y. Morimoto, D. Strmcnik, V.R. Stamenkovic, and N.M. Markovic	Toyota Central R&D Labs, Argonne National Laboratory