

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area VII: Hydrogen & Fuel Cell	Oral Session	O-Hf-1	Hydrogen & Fuel Cell I (Fuel Cell I)	20-Jun	13:00 - 15:00	313+314	Etsuo Akiba (Kyushu University, Japan)	Takahiro Suzuki (Osaka University, Japan)	1	Invited7-1	HONDA'S ACTIVITIES FOR HYDROGEN SOCIETY	Koji Nakazawa (Honda R&D Co., Ltd. R&D Center X)
									2	a90735	DEVELOPMENT STATUS OF TOYOTA FUEL CELL SYSTEM	Koichi Numata (FC system Engineering and Development Div. Toyota Motor Corporation, Aichi, Japan)
									3	a90879	ANALYSIS OF OXYGEN TRANSPORT RESISTANCE IN POLYMER ELECTROLYTE FUEL CELLS FOR DIFFERENT COMBINATIONS OF MPL'S	Takemi Chikahisa (Graduate School of Engineering, Hokkaido University, Sapporo, Japan)
									4	a90279	Examining of additive carbon kind and particle size to MEA with self-water management on PEFC for cost reduction	Kimihiko Sugiura (Osaka Prefecture University College of Technology, Osaka, Japan)
									5	a90797	HYDROGEN CONCENTRATION DISTRIBUTION VISUALIZATION OF GDL DURING PEFC START-UP	Konosuke Watanabe (Graduate School of Engineering, Yokohama National University, Kanagawa, Japan)
									6	a91007	EFFECT OF NIOBIUM DOPING FOR ENHANCING ORR ACTIVITY OF NIOBIUM DOPED TITANIUM OXIDE ELECTRO-CATALYST	Shipra Chauhan (Device Analysis Department, NISSAN ARC, LTD., 1 Natsushima-cho, Yokosuka, 237-0061, Japan)
									7	a90490	Carbon-free Connected Nanoparticle Catalyst for Enhanced Oxygen Reduction Activity and Durability in Polymer Electrolyte Fuel Cells	Hidenori Kuroki (Kanagawa Institute of Industrial Science and Technology (KISTEC))
Area VII: Hydrogen & Fuel Cell	Oral Session	O-Hf-2	Hydrogen & Fuel Cell II (Fuel Cell II)	20-Jun	15:15 - 16:30	313+314	Takemi Chikahisa (Hokkaido University, Japan)	Koichi Numata (Toyota Motor Corporation, Japan)	1	a90698	EVAPORATION-INDUCED PARTICLE PATTERNING OF THE PEFC CATALYST INK	Takahiro Suzuki (Graduate school of engineering, Osaka University, Osaka, Japan)
									2	a90715	IONOMER AND CARBON AGGREGATIONS IN WATER/ALCOHOL SOLUTIONS BY COARSE-GRAINED MOLECULAR DYNAMICS	Takuya Mabuchi (Frontier Research Institute of Interdisciplinary Sciences, Tohoku University, Miyagi, Japan)
									3	a90416	THIN PORE-FILLING MEMBRANE WITH HIGH-DENSITY STRUCTURE OF SULFONIC ACID GROUPS FOR NEXT-GENERATION PEFCs	Yuhei Oshiba (Laboratory for Chemistry and Life Science, Tokyo Institute of Technology, Japan)
									4	a90329	RELATIONSHIP BETWEEN ELECTRICAL CONDUCTIVITY AND PERFORMANCE OF BIPOLAR PLATES IN PEM FUEL CELL: POLYBENZOXAZINE/GRAPHENE NANOPARTICLE	Kotchaporn - Jariyakun (Department of Industrial Chemistry, KMUTNB, Bangkok, Thailand)
									5	a90266	INVESTIGATING PERFORMANCE AND VOLTAGE DEGRADATION OF PEMFC/SUPERCAPACITOR DIRECT-HYBRIDIZATION SYSTEM	Yaowaret - Maiket (Department of Industrial Chemistry, Faculty of Applied Science, KMUTNB, Thailand.)
Area VII: Hydrogen & Fuel Cell	Oral Session	O-Hf-3	Hydrogen & Fuel Cell III (Hydrogen Energy Career )	21-Jun	8:15 - 10:30	313+314	Hirohide Furutani (FREA, AIST, Japan)	Yoshio Matsuzaki (Tokyo Gas Co., Japan)	1	a90364	REDUCING CO2 EMISSION FROM POWER PLANT BY USING CARBON FREE AMMONIA AS A FUEL	Toshiyuki Suda (IHI Corporation, Yokohama, Japan)
									2	a90493	INFLUENCE OF COMBUSTION CHARACTERISTICS OF AMMONIA IN COMBUSTION FURNACE ON HEATING EFFICIENCY	Ryuki Kano (Department of Mechanical Engineering, Osaka University, Osaka, Japan)
									3	a90780	HEAT TRANSFER CHARACTERISTICS OF AN IMPINGING FLAME ON AMMONIA AND METHANE COMBUSTION	Yuji Tada (Department of mechanical engineering, Osaka University, Osaka, Japan)
									4	a90670	EFFECTS OF THE NON-EQUILIBRIUM PLASMA ON THE CHEMICAL REACTION REGARDING IGNITION DELAY OF AMMONIA FLAME	Akira Shioyoke (Department of Energy Conversion Science, Kyoto, Japan)
									5	a90878	DIRECT REFORMING OF METHANE-AMMONIA MIXED FUEL ON Ni-YSZ CATALYST	Hiroshi Iwai (Department of Aeronautics and Astronautics, Kyoto University, Kyoto, Japan)
									6	a90129	PERFORMANCE AND STABILITY OF DIRECT AMMONIA-FUELED SOLID OXIDE FUEL CELL: INFLUENCE OF OPERATING CONDITIONS	VANDANA SINGH (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Kyoto 615-8510, Japan)
									7	a90785	OXIDE-ION DIFFUSION IMAGING IN AN ANODE-SUPPORTED SOLID OXIDE FUEL CELL THROUGH OXYGEN ISOTOPE LABELING	Merika Chanthanumataporn (Department of Mechanical Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									8	a90681	THE CORRELATION BETWEEN THICKNESS OF NICKEL-GADOLINIUM DOPED CERIA ELECTRODE AND PERFORMANCE OF SOLID OXIDE CELL	Anna Sciazko (Institute of Industrial Science, The University of Tokyo, Tokyo, Japan)
									9	a90690	HIGH-EFFICIENT ENERGY CONVERSION AND/OR STORAGE BY USING SOLID OXIDE ELECTROCHEMICAL CELLS	Yoshio Matsuzaki (Tokyo Gas Co., Ltd., (& Kyushu Univ.), Japan)
Area VII: Hydrogen & Fuel Cell	Oral Session	O-Hf-4	Hydrogen & Fuel Cell IV (Hydrogen Production)	21-Jun	10:45 - 12:30	313+314	Hiroshi Iwai (Kyoto University, Japan)	Toshiyuki Suda (IHI Corporation, Japan)	1	a90245	DEVELOPMENT OF SOEC STACK FOR HYDROGEN PRODUCTION	Shohei Kobayashi (Power and industrial Systems R&D Center, Toshiba Corporation, Fuchu, Japan)
									2	a90535	ELECTROLYSIS SYSTEM OPERATION STRATEGIES FOR A HYDROGEN REFUELING STATION USING RENEWABLE ENERGY SOURCES	Hirohisa Aki (University of Tsukuba)
									3	a90566	FROM SODA PRODUCTION TO ENERGY STORAGE AND ENVIRONMENT SOLUTIONS	Akira Sakakibara (Business Development)
									4	a90808	DEVELOPMENT OF SOLID OXIDE ELECTROLYSIS CELL CATHODES FOR DIRECT METHANATION IN CO <sub>2</sub> /H <sub>2</sub> O CO-ELECTROLYSIS	Naoya Fujiwara (Department of Chemical System Engineering, The University of Tokyo, Japan)
									5	a90990	IMPROVEMENT OF TOLUENE DIRECT ELECTRO-HYDROGENATION ELECTROLYZER FOR ENERGY CARRIER TECHNOLOGY	Kensaku Nagasawa (Institute of Advanced Sciences, Yokohama National University, Japan)
									6	a91119	DYNAMIC BEHAVIOR IN A HYDROGENATION REACTOR FOR HYDROGEN ENERGY CARRIER PRODUCTION FROM RENEWABLE ELECTRICITY	Hirokazu Kojima (Renewable Energy Research Center, National Institute of Industrial Science and Technology, Koriyama, Japan)

GRE2018 Preliminary Program

\*presentation numbers will be assigned later in the final program

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									7	a91093	Process synthesis of Methyl-cyclohexane Dehydrogenation System for Reciprocating Engine	Ryosuke Atsumi (National Institute of Advanced Industrial Science and Technology)
Area VII: Hydrogen & Fuel Cell	Oral Session	O-Hf-5	Hydrogen & Fuel Cell V (Hydrogen Energy System and Hydrogen Storage Materials)	22-Jun	8:45 - 11:00	313+314	Tatsuoki Kono (Tohoku University, Japan)	Tetsuhiko Maeda (FREA, AIST, Japan)	1	a90622	H <sub>2</sub> Off-Grid Solution - Hydrogen-Based Energy Supply System for isolated areas from Power-Grid -	Toshimitsu Kumazawa (Toshiba Corporation, Japan)
									2	a90096	Control Method to Achieve both Hydrogen Generation and Demand Response Using Renewable Energy	Shingo Tamaru (Power and Industrial Systems R&D Center, Toshiba Corporation)
									3	a90621	SUPPLYING THE JAPANESE TRANSPORT SECTOR WITH WIND-GENERATED HYDROGEN FROM OVERSEAS	Philipp Matthias Heuser (Institute of Electrochemical Process Engineering (IEK-3), Forschungszentrum Juelich GmbH, Germany)
									4	a90151	Effect of ZrO <sub>2</sub> promoter on catalytic performance of Ni/Al <sub>2</sub> O <sub>3</sub> for Dry methane reforming	Wassachol Sumarasingha (Department of Industrial Chemistry, Faculty of applied science, King Mongkut's University of Technology North Bangkok, Thailand)
									5	a90528	HYDROGEN PRODUCTION FROM LIQUOR BY STEAM REFORMING	Shunya Momosaki (Department of Mechanical Engineering, Doshisha University, Kyoto, Japan)
									6	a90557	Sunlight to Sustainable Hydrogen Production Using Compact CPV	Kim Choon Ng (King Abdullah University of Science & Technology, Saudi Arabia)
									7	a90833	Hydrogen Storage on Metal Hydrides-Conjugated Macromolecule Composite Materials	Akihiro Yoshida (North Japan Research Institute for Sustainable Energy, Hirosaki University, Japan)
									8	a90229	H <sub>2</sub> SORPTION OF MgH <sub>2</sub> -xLiBH <sub>4</sub> DOPED WITH ACTIVATED CARBON NANOFIBERS FOR REVERSIBLE HYDROGEN STORAGE BASED LABORATORY AND TANK SCALES	Rapee Utke (Institute of Science, Suranaree University of Technology)
									9	a90594	DESIGN OF A HYDROGEN COMPRESSOR FOR HYDROGEN FUELING STATIONS	SATYA SEKHAR BHOGILLA (MECHANICAL DEPARTMENT, IIITDM KURNOOL, INDIA)
Area VII: Hydrogen & Fuel Cell	Poster Session	P-Hf	Hydrogen & Fuel Cell	22-Jun	11:00 - 12:00	foyer			1	a91098	VOLTAGE oscillation ANALYZED BY OPERANDO MONITORING OF OXYGEN PARTIAL PRESSURE INSIDE RUNNING POLYMER ELECTROLYTE FUEL CELL	Yu Kakizawa (Integrated Graduate School of Medicine, Engineering, and Agricultural Sciences, University of Yamanashi)
									2	a90094	ENERGY AND EXERGY FLOW OF A HYDROGEN SUPPLY CHAIN ASSUMING A TRUCK TRANSPORTATION OF AMMONIA AND METHYLCYCLOHEXANE	Jiaren Li (Department of Electrical and Electronic, Kitami Institute of Technology, Kitami, Japan)
									3	a90031	PLATINUM DICHALCOGENIDES: ELECTROCHEMICAL AND ELECTROCATALYTIC TRENDS TOWARDS ACTIVATION FOR HYDROGEN EVOLUTION	Xinyi Chia (School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore)
									4	a90603	HYDROGEN SORPTION OF TRANSITION METAL MODIFIED BCN COMPOUNDS	Takahiro Suzuki (Department of Materials and Applied Chemistry, College of Science and Technology, Nihon University, Tokyo, Japan)
									5	a91022	Outline of 70 MPa commercial H <sub>2</sub> station using renewable energy hydrogen	Tetsuhiko Maeda (AIST)
									6	a90380	FABRICATION OF A SOLID OXIDE ELECTROLYSIS BUTTON CELL ASSEMBLY USING NiO-YSZ/YSZ/LSM-YSZ VIA DROP-COATING METHOD	Rinlee Butch Mangrobang Cervera (Advanced Materials for Energy Lab, Department of Mining, Metallurgical, & Materials Engineering University of the Philippines Diliman)
									7	a90702	CARBON SUPPORT EFFECTS ON PEFC PERFORMANCE ANALYZED BY REACTION AND MASS TRANSPORT SIMULATION IN CATALYST LAYER	Tomohiro Ohnishi (Dept. Chemical Engineering, Kyushu University, Fukuoka, Japan)
									8	a90947	NUMERICAL STUDY OF MASS TRANSFER IN NON-AQUEOUS LI-AIR BATTERY	Jie Li (Department of Mechanical Engineering, University of Shenyang Jianzhu, Shenyang, China)
									9	a90661	Installation Effect of Solid Oxide Fuel Cell Co-generation Depending on Combination of Commercial Buildings	Shunya Sumitomo (Tokyo University of Agriculture and Technology, Tokyo, Japan)
									10	a90806	A DISCRETE PARTICLE PACKING MODEL OF CATALYST LAYER FORMATION IN POLYMER ELECTROLYTE FUEL CELLS	Magnus So (Department of Chemical Engineering, Kyushu University, Fukuoka, Japan)
									11	b90029	Development of Direct Carbon Fuel Cell	Andrew C. Chien (Department of Chemical Engineering, Feng Chia University, Taichung, Taiwan)