

Oral Session

Keynote/Invited	Presentation NO	Presentation date	Time to start	Time to finish	Account: First name	Account: Middle name	Account: FAMILY NAME	Account: Affiliation	Abstract title
Chairpersons:Toshiyuki MORI									
Invited	A-2-I27-001	27 Sep.	10:30	10:50	Toshiyuki		MORI	National Institute for Materials Science	Micro-structural features of interfaces in the doped ceria for fuel cell applications
Invited	A-2-I27-002	27 Sep.	10:50	11:10	Fei		YE	Dalian University of Technology	Microstructural Evolution in a CeO ₂ -Gd ₂ O ₃ System
	A-2-O27-003	27 Sep.	11:10	11:25	Kyung Joong		YOON	Korea Institute of Science and Technology	Enhanced Performance and Carbon Tolerance of Ceramic Composite Anode for Solid Oxide Fuel Cells (SOFCs)
Invited	A-2-I27-004	27 Sep.	11:25	11:55	San Ping		JIANG	Curtin University	Effect of volatile boron species on the electrochemical activity and microstructure of LSM and GDC-impregnated LSM cathodes of SOFC
	A-2-O27-005	27 Sep.	11:55	12:10	Gu Young		CHO	Seoul National University	Structure and performance of MIEC anode for SOFCs by co-sputtering
Lunch 27 Sep. 12:10 13:30									
Chairpersons:Toshiyuki MORI									
Invited	A-2-I27-006	27 Sep.	13:30	13:50	Hae-Weon		LEE	Korea Institute of Science and Technology	Layer-by-Layer Construction of High Performance Solid Oxide Fuel Cells (SOFCs) Using Chemical Solution Deposition (CSD) Process
Invited	A-2-I27-007	27 Sep.	13:50	14:10	John	A	KILNER	Imperial College,London	Lateral Oxygen Tracer Diffusion in Multilayered Thin Films
Invited	A-2-I27-008	27 Sep.	14:10	14:30	Bilge		YILDIZ	Massachusetts Institute of Technology	Electronic Activation in the La _{0.8} Sr _{0.2} CoO ₃ (La _{0.5} Sr _{0.5}) ₂ CoO ₄ Superlattices at High Temperature
Invited	A-2-I27-009	27 Sep.	14:30	14:50	Jose		SANTISO	Nanoscience and Nanotechnology Research Centre, CIN2 (CSIC-ICN)	Interface structure and charge transport properties in epitaxial heterostructures of ionic conducting materials
Invited	A-2-I27-010	27 Sep.	14:50	15:10	Manuel	E.	BRITO	National Institute of Advanced Industrial Science and Technology (AIST)	A Case Study of Degradation in Solid Oxide Fuel Cells: The Microstructural Analysis
Coffee Break 27 Sep. 15:10 15:15									
Chairpersons:Manuel Brito									
	A-2-O27-011	27 Sep.	15:15	15:30	Hiroshi		SHINGU	Daido University	Missions and Progressions of PEFC Evaluation Project in Japan
Invited	A-2-I27-012	27 Sep.	15:30	15:50	Yasunari		MAEKAWA	Japan Atomic Energy Agency (JAEA)	Development of High Performance Polymer Electrolyte Membranes with Nano-scale Structures using Radiation Technique
	A-2-O27-013	27 Sep.	15:50	16:05	Young Soo		YOON	Yonsei University, Seoul 120-749, Korea	Electrically conducting Polymer/MWCNT composite coated stainless steel 316L as metallic bipolar plates for Polymer Electrolyte Membrane Fuel Cells
	A-2-O27-014	27 Sep.	16:05	16:20	Takahiro		SAIDA	Institute for Molecular Science	Visualization of Cathode Catalyst Layer of Polymer Electrolyte Membrane Fuel Cell by X-ray Computed-Laminography XAFS
	A-2-O27-015	27 Sep.	16:20	16:35	shipra		CHAUHAN	STUDENT, NIMS	Convenient low content and low temperature synthesis of the interface on Pt decorated ceria nanowire anode for high activity of methanol electro-oxidation
	A-2-O27-016	27 Sep.	16:35	16:50	Takashi		MORINAGA	National Institute for Materials Science	Development of a Novel Polymer Electrolyte for Fuel Cell using Silica Particles Grafted with Concentrated Ionic Liquid Polymer Brush
Coffee Break 27 Sep. 17:00 18:00									
Keynote	Special Lecture: Soniya award	27 Sep.	18:00	18:30	John	A	KILNER	Imperial College,London	Oxygen Ion Conductors: Straining at the Leash?
Chairpersons:Manuel Brito									
	A-2-O28-001	28 Sep.	9:00	9:15	Miwa		SAITO	Kanagawa Univ.	Electrical conductivity of proton conductors Ba-(Zn, W)-O systems having double-perovskite-type structures
	A-2-O28-002	28 Sep.	9:15	9:30	Fangfang		WANG	National Institute of Advanced Industrial Science and Technology (AIST)	Mechanism of Sulfur Poisoning at the Early Stage of Degradation
Invited	A-2-I28-003	28 Sep.	9:30	9:50	Ding Rong		OU	Dalian Institute of Chemical Physics, Chinese Academy of Sciences	High-temperature Oxidation and Novel Protective Coatings of Fe-Cr Ferritic Steels as Metallic Interconnect Materials for SOFC Applications
Invited	A-2-I28-004	28 Sep.	9:50	10:10	Sergey	Ivanovich	BREDIKHIN	Institute of Solid State Physics Russian Academy of Sciences	Improvement of oxidation resistance of Crofer 22APU with modified surface for Solid Oxide Fuel Cell interconnects
Invited	A-2-I28-005	28 Sep.	10:10	10:30	John		DRENNAN	University of Queensland	Advanced Characterization of Lanthanum Gallate Related Materials and the Implications for Oxygen Ion Conduction.
Invited	A-2-I28-006	28 Sep.	10:30	10:50	Jong-Heun		LEE	Korea University	Low-temperature sintering, phase purity, and electrical conductivity of Strontium- and Magnesium-doped Lanthanum Gallate
Invited	A-2-I28-007	28 Sep.	10:50	11:10	Harry	L	TULLER	Massachusetts Institute of Technology	Probing electro-chemically active thin films by in-situ optical absorption and impedance spectroscopy measurements
	A-2-O28-008	28 Sep.	11:10	11:25	Koichi		KAWAHARA	Japan Fine Ceramics Center	Effect of SrFeO ₃ reactive layer on Ni-SDC/LSGM/SSC single cell performance
	A-2-O28-009	28 Sep.	11:25	11:40	Jong-Eun		HONG	Kyushu University	Sintering and Electrical Properties of La-doped CeO ₂ with TiO ₂ Additive as Buffer Layer for Doped Lanthanum Gallate Electrolyte Film
	A-2-O28-010	28 Sep.	11:40	11:55	Sean	R	BISHOP	Kyushu University	The origin of defect induced chemical expansion in non-stoichiometric oxides: CeO ₂ case study
Invited	A-2-I28-011	28 Sep.	11:55	12:15	Tatsumi		ISHIHARA	Kyushu University	Oxide ion diffusivity in Pr ₂ Ni(Cu,Ga)O ₄ -Ce(Sm)O ₂ nano size film with layer-by-layer structure
	A-2-O28-012	28 Sep.	12:15	12:30	Yoshinobu		FUJISHIRO	National Institute of Advanced Industrial Science and Technology (AIST)	Development of the Micro-SOFC and Stack Fabrication Technology
Coffee Break 28 Sep. 12:30 13:00									
Chairpersons:Toshiyuki MORI									
Invited	A-2-I28-013	28 Sep.	13:00	13:20	Vladimir		MATOLIN	Charles University in Prague	Thin-film catalysts for proton exchange membrane micro fuel cells
	A-2-O28-014	28 Sep.	13:20	13:35	Akimitsu		ISHIHARA	Yokohama National University	Group 4 and 5 metal oxide-based compounds as non new-platinum cathode for PEFC
Invited	A-2-I28-015	28 Sep.	13:35	13:55	Atsunori		MATSUDA	Toyohashi University of Technology	Design of Highly Proton Conductive Solid Electrolytes Based on Nanopore, Interface and Defect and Their Electrochemical Application
Invited	A-2-I28-016	28 Sep.	13:55	14:15	Atsushi		Mineshige	University of Hyogo	Oxygen-excess-type oxide ion conductors for fuel cell application
	A-2-O28-017	28 Sep.	14:15	14:30	Michihisa		KOYAMA	Kyushu University	Reactive Molecular Dynamics Simulations Study of Hydrocarbon Feedstock by SOFC Anode
	A-2-O28-018	28 Sep.	14:30	14:45	SHIXUE		LIU	Kyushu University	First-principles Calculation of Methane Oxidation Intermediates Adsorbed on Nickel (111) Surface under Electric Potential
	A-2-O28-019	28 Sep.	14:45	15:00	Kimio		YOSHIMURA	Japan Atomic Energy Agency	Synthesis of Alkaline Durable Anion Exchange Membranes by Radiation-Induced Grafting for Hydrazine Hydrate Fuel Cell
Coffee Break 28 Sep. 15:00 15:15									
Chairpersons:Toshiyuki MORI									
Invited	A-2-I28-020	28 Sep.	15:15	15:35	Kazunori		SATO	Nagaoka Univ. Technol.	Specific Surface State of Transition Metal Oxides for the Activation of Photoelectrochemical Reactions
	A-2-O28-021	28 Sep.	15:35	15:50	ROHIT		KHANNA	College of Life & Health Sciences, Chubu University	Molecular catalyst fixation mechanism on the surfaces of chemically and thermally treated titanium electrode for fuel cell and water splitting applications
	A-2-O28-022	28 Sep.	15:50	16:05	Haruo		KISHIMOTO	National Institute of Advanced Industrial Science and Technology (AIST)	Phase transformation of yttria stabilized zirconia under SOFC operating condition
	A-2-O28-023	28 Sep.	16:05	16:20	Pengfei		Yan	NIMS	Grain boundary conductivity in heavily doped ceria

Poster Session

Presentation NO	Presentation date	Time to start	Time to finish	Account: First name	Account: Middle name	Account: FAMILY NAME	Account: Affiliation	Abstract title
A-2-P26-001	26 Sep.	16:30	18:30	Song-Yul		OH	Toyohashi University of Technology, Japan	Anhydrous Proton Conductivity of KHSO ₄ -H3PW12O ₄₀ Composites and the Correlation with Hydrogen Bonding Distance under Ambient Pressure
A-2-P26-002	26 Sep.	16:30	18:30	Je Deok		KIM	National Institute for Materials Science	Improving of cell performance of sulfonated poly(ether ether ketone) polymer electrolyte membranes using activation treatment
A-2-P26-003	26 Sep.	16:30	18:30	Hirotsuka		TOGASAKI	Hokkaido Univ.	Influence of Pt-CeO _x hetero interface on CO electro-oxidation
A-2-P26-004	26 Sep.	16:30	18:30	Hirotsuka		TOGASAKI	Hokkaido Univ.	CO tolerance of Pt on Pt-CeO _x /CB anode improved by strong ligand effect in methanol oxidation reaction
A-2-P26-005	26 Sep.	16:30	18:30	Tetsuya		ADACHI	Yokohama National University	Dissolution of Pt in proton exchange membranes with various ion exchange capacities
A-2-P26-006	26 Sep.	16:30	18:30	Keisuke		FUGANE	National Institute for Materials Science	Structural Characterization of Interface between Pt and Ce Oxide Layer in Pt-CeO _x Thin Film Electrode for Polymer Electrolyte Fuel Cell Application
A-2-P26-007	26 Sep.	16:30	18:30	Keisuke		FUGANE	National Institute for Materials Science	Proton Adsorption and Desorption on Non-precious Metal Tungsten Loaded Ceria electrodes for Polymer Electrolyte Fuel Cell Application
A-2-P26-008	26 Sep.	16:30	18:30	Chun-Chen		YANG	Ming Chi University of Technology	Preparation of the anion-exchange nanocomposite membrane for an alkaline direct methanol fuel cell (ADMFC)
A-2-P26-009	26 Sep.	16:30	18:30	Shunya		YAMAMOTO	Japan Atomic Energy Agency	Oxygen Reduction Activity of Iron and Nitrogen Doped Carbon Films Prepared by Pulsed Laser Deposition
A-2-P26-010	26 Sep.	16:30	18:30	Shihong		YIN	Yokohama National University	Synthesis of highly active Zr oxide-based electrocatalysts for oxygen reduction reaction as PEFC cathode
A-2-P26-011	26 Sep.	16:30	18:30	Akimitsu		ISHIHARA	Yokohama National University	Highly active titanium oxide-based electrocatalyst for oxygen reduction reaction for PEFC
A-2-P26-012	26 Sep.	16:30	18:30	Kohei		HARA	Yokohama National University	ORR activity of fine Nb oxide-based compounds prepared from Nb carbonitrides in sulfuric acid solution
A-2-P26-013	26 Sep.	16:30	18:30	Jan-Michael		ALBINA	Institute of Industrial Science (IIS), The University of Tokyo	First-principles investigation of the tetragonal to monoclinic phase transformation in yttria-stabilized zirconia
A-2-P26-014	26 Sep.	16:30	18:30	Shotaro		HARA	The University of Tokyo	Kinetic Monte Carlo Simulations of Microstructural Evolution in Solid Oxide Fuel Cell Cermet Anode
A-2-P26-015	26 Sep.	16:30	18:30	Yuanyuan		WU	NIMS	A new method for decreasing the Pt particle size in anode for SOFC
A-2-P26-016	26 Sep.	16:30	18:30	Shigeharu		ITO	Kanagawa University	Electrical properties of new brownmillerite-type Ba ₂ M _{2-x} (M'Zr) _x O ₅ systems (M=In, Yb M'=Zn, Mg)
A-2-P26-017	26 Sep.	16:30	18:30	DoHyung		CHO	National Institute of Advanced Industrial Science and Technology (AIST)	Effect of polarization on chromium distribution under Cr poisoning condition in the (La _{0.6} Sr _{0.4})(Co _{0.2} Fe _{0.8})O ₃ Cathode
A-2-P26-018	26 Sep.	16:30	18:30	Kazumasa		DENDO	National Institute for Materials Science	Effect of formation of Pt-O-Ce interface in Pt-CeO _x as O ₂ electrode on the performance of intermediate-temperature solid oxide electrolysis cells (IT-SOECs)
A-2-P26-019	26 Sep.	16:30	18:30	Atsushi		Mineshige	University of Hyogo	Relation between oxide ion conductivity and crystal structure of lanthanum excess-type lanthanum silicates
A-2-P26-020	26 Sep.	16:30	18:30	Yuudai		OGATA	Kyushu University	Water Sorption Kinetics of Thin Polyelectrolyte Films
A-2-P26-021	26 Sep.	16:30	18:30	GURUDAS	PRAKASH	MANE	National Institute for Materials Science, Tsukuba, Japan	Synthesis of well-ordered nanoporous graphitic carbon nitride using basic aromatic precursor for photocatalytic hydrogen evolution
A-2-P26-022	26 Sep.	16:30	18:30	Tatiana		ZAHORANOVA	National Institute for Materials Sciences (NIMS)	Study of highly porous magnetron sputtered CeO ₂ layers with the presence of gold nano-particles for CO oxidation at atmospheric pressure