[Session Group List]

Session A \sim Materials and Devices for energy \sim

	Japan	9:45am-11:45am on December 15 (Wed.)	
Time	U.S.A. (EST)	19:45pm-21:45pm on December 14 (Tue.)	
	U.S.A. (PST)	16:45pm-18:45pm on December 14 (Tue.)	
Room	for Tokyo Tech only	Lecture Theater	
Chair	Minoru Ashizawa	Tokyo Institute of Technology	
Co-Chair	Yiwei Zhang	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Peilu Jian	g	Tokyo Institute of Technology	Liquid-phase Synthesis of L-P-S-Br Solid Electrolyte for the Cathode Composite of All-solid-state Li-S Battery
Elio Gonz	alez	University of California, Santa Barbara	Impact of V Substitution by Mg and Al on Structure and Na ⁺ Diffusion in Na ₃ V ₂ (PO ₄) ₃ Na-ion Cathodes
Moe Okaz	zaki	The University of Tokyo	System Design for Ammonia Electrosynthesis using Proton-Conducting Ceramic Electrolysis Cells
David L. S	Simeroth	Georgia Institute of Technology	Control of Apparent Optical Properties with Structured Metamaterials
Mengqi S	hi	Tokyo Institute of Technology	Preparation of CeO2 Nanoparticles by Laser Ablation in Liquid Method and the UV Absorption Properties
Wahid Za	man	Princeton University	Influence of Kinetic Limitations in Stable Cycling of All Solid-state Li-metal Batteries

Session B \sim Reactions for energy \sim

	Japan	9:45am-11:45am on December 15 (Wed.)	
Time	U.S.A. (EST)	19:45pm-21:45pm on December 14 (Tue.)	
	U.S.A. (PST)	16:45pm-18:45pm on December 14 (Tue.)	
Room	for Tokyo Tech only	W831	
Chair	Tsuyoshi Nagasawa	Tokyo Institute of Technology	
Co-Chair	Hiroshi Noma	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Chunyuan	Zhan	Tokyo Institute of Technology	Carbon Recycling by Nonthermal Plasma-Driven CO₂ Methanation
Sibo Huan	g	Tokyo Institute of Technology	Measurement of Flame Temperature Using OH PLIF of A-X (0-0) and (0-1) Bands
Taichi Wat	tanabe	Tokyo Institute of Technology	Investigation on Emission Spectrum from 10-parallel Diaphragm Discharge Plasma
Dawei She	en	Tokyo Institute of Technology	A Large-scale Simulation of Driftwood Disaster by Using LBM with AMR

Session C \sim Materials and Devices for energy \sim

	Japan	18:30pm-20:30pm on December 15 (Wed.)	
Time	France, Germany	10:30am-12:30pm on December 15 (Wed.)	
	UK	9:30am-11:30am on December 15 (Wed.)	
Room	for Tokyo Tech only	Lecture Theater	
Chair	Atsunori Ikezawa	Tokyo Institute of Technology	
Co-Chair	Akira Kumashiro	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Philippine	e de Crevoisier	CEA, LITEN	Understanding Flooding Phenomena in Mini-Channel of Proton Exchane Membrane Fuel Cells
Yuri Tei		Tokyo Institute of Technology	Preparation of Gd ₂ O ₃ :Er,Yb Upconversion Nanoparticles by Laser Ablation in Liquid and Characterization
Thomas D	Oursap	Univ. Lyon	III-V Core / Oxide Shell Nanowires for Light-Driven Water Splitting
Tomohiro	Imai	Tokyo Institute of Technology	Design and Synthesis of Polymers Having Robust Triarylsulfonium Salt Moieties by Addition Reaction of Arynes and Their Applications to Alkaline Exchange Membranes
Timothée	Drugeot	Univ. Grenobles Alpes	Investigation and Quantification of Irreversible Degradations in Start-Up Phase of a PEMFC System by an Accelerated Emulation of Reverse Current Decay Mechanism
Daichi Sa	kakibara	Tokyo Institute of Technology	Tensile Behavior of Bundle SiC _t /SiC Composites with Boron Nitride Interphase Formed by Electrophoretic Deposition Method

Session D \sim Systems and Data Science for energy \sim

	Japan	18:30pm-20:30pm on December 15 (Wed.)	
Time	France, Germany	10:30am-12:30pm on December 15 (Wed.)	
	UK	9:30am-11:30am on December 15 (Wed.)	
Room	for Tokyo Tech only	W831	
Chair	Isao Ono	Tokyo Institute of Technology	
Co-Chair	Muhammad Nasir	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Sander Väll	k	Imperial College London	Tools to Support Interdisciplinary Knowledge Sharing for Creativity and Innovation
Roland Har	rtanto	Tokyo Institute of Technology	Automatic Speech Recognition System for Code-switching Speech
Malak Sade	ek	Imperial College London	The Importance of Designing User-Centred AI Metrics for System Evaluation
Wang Fan		Tokyo Institute of Technology	Understanding of Water-Induced Force through Thermodynamical Analysis of Surface Forces
Mimi Nguye	en	Imperial College London	Moody Man: Improving Creative Teamwork Through Dynamic Affective Recognition

Session E \sim Materials and Devices for energy \sim

	Japan	9:45am-11:45am on December 16 (Thu.)	
Time	U.S.A. (EST)	19:45pm-21:45pm on December 15 (Wed.)	
	U.S.A. (PST)	16:45pm-18:45pm on December 15 (Wed.)	
Room	for Tokyo Tech only	Lecture Theater	
Chair	Sachiko Matsushita	Tokyo Institute of Technology	
Co-Chair	Moe Okazaki	The University of Tokyo	
Lecturer		Affiliation	Abstruct Title
Yiwei Zha	ang	Tokyo Institute of Technology	Creation of Smart PDMS Sponge for Selective Recovery of Molybdenum from Radioactive Wastes
Emily E. F	oley	University of California, Santa Barbara	Investigation of Mixed Manganese-Iron Sodium Metal Fluorides as a New Na-ion Battery Cathode
Shunta Ch	hikami	Tokyo Institute of Technology	Prediction of Protein Adsorption onto Polymer Surface using Machine Learning
Onur A. K	lucuktas	Georgia Institute of Technology	Control of Apparent Optical Properties via Semitransparent Mesostructures for Radiant Energy Conversion Applications
Huang Yu	ımin	Tokyo Institute of Technology	The Development of HCT116 cell line with Norepinephrine Transporter (NET) Expression
Howie Ng	guyen	University of California, Santa Barbara	Direct Insight into Electrochemical Processes in Alkali-ion Cathodes from <i>Operando</i> Electron Spin Probes

Session F \sim Systems and Data Science for energy \sim

	Japan	9:45am-11:45am on December 16 (Thu.)	
Time	U.S.A. (EST)	19:45pm-21:45pm on December 15 (Wed.)	
	U.S.A. (PST)	16:45pm-18:45pm on December 15 (Wed.)	
Room	for Tokyo Tech only	Innovation Hall	
Chair	Kenichi Kawabe	Tokyo Institute of Technology	
Co-Chair	Hartanto Roland	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Masahiro	Ito	Tokyo Institute of Technology	Sequential Distributed Development of Multiple Retrofit Controllers: Independence of Identification, Design, and Operation
Muhamma	ad Nasir	Tokyo Institute of Technology	Three-dimensional Pore-scale Observation of Drying Process of Porous Media
Natsuki O	toshi	Tokyo Institute of Technology	Construction of Prediction Model for Shadowed Photovoltaics Power Generation by Multiple Regression and IQE-Based Model
Wilson Ric	cks	Princeton University	The Value of In-Reservoir Energy Storage for Flexible Operation of Geothermal Systems
Zhang Bo		Tokyo Institute of Technology	Bioinformatics Analysis of Radiation Response of Gene Expression

Session G \sim Materials and Devices for energy \sim

	Japan	18:30pm-20:30pm on December 16 (Thu.)	
Time	France, Germany	10:30am-12:30pm on December 16 (Thu.)	
	UK	9:30am-11:30am on December 16 (Thu.)	
Room	for Tokyo Tech only	Lecture Theater	
Chair	Masahiko Nakase	Tokyo Institute of Technology	
Co-Chair	Yuri Tei	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Kexin Che	en	Tokyo Institute of Technology	Study on the Activity of the Citric Acid-decorated Carbon Nanotubes for Oxygen Reduction Reaction
Jérémy Du	umoulin	Univ. Lyon	Modelling the Potential Benefit of Enhanced Radiative Sky Cooling of Solar Cells, and Investigation of Possible Optimisation Routes
Leo Adach	ni	Tokyo Institute of Technology	Preparation of Cellulose Nanofibers by Laser Irradiation and Characterization
Tristan Le	e Carre	Univ. Grenoble Alpes	Gas Diffusion Layer submitted to Patterned Compression Loading in Proton Exchange Membrane Fuel Cells
Akira Kum	nashiro	Tokyo Institute of Technology	Proposal of High Speed Magnetic Geared Motor with Magnetic Levitated High-speed Rotor
Toudret P	ierre	Univ. Grenoble Alpes	Understanding and Optimization of Proton Exchange Membrane Fuel Cell Electrodes

Session H \sim Reactions for energy \sim

	Japan, Korea	18:30pm-20:30pm on December 16 (Thu.)	
Time	France, Germany	10:30am-12:30pm on December 16 (Thu.)	
	UK	9:30am-11:30am on December 16 (Thu.)	
Room	for Tokyo Tech only	Innovation Hall	
Chair	Shintaro Matsushita	Tokyo Institute of Technology	
Co-Chair	Chunyuan Zhan	Tokyo Institute of Technology	
Lecturer		Affiliation	Abstruct Title
Abraham	Castro Garcia	Tokyo Institute of Technology	Machine Learning Based Analysis of Phenomena in Lignin Depolymerization Reactions
Tongda L	ian	Tokyo Institute of Technology	Liquid Foam Simulation with Consideration of Surfactant Transportation by Using Weakly Compressible Scheme
Sanguk L	ee	Korea Advanced Institute of Science and Technology	Comparison of Hydrogen Mixture Formation in a Spark Ignition Engine
Hiroshi N	oma	Tokyo Institute of Technology	Study on Friction-Increasing Mechanism of Tribofilms Formed in the Combination of Multiple Lubricating Additives
Zijing Li		Tokyo Institute of Technology	X-ray Tomographic Study on Characteristics of Shear Enhanced Dispersion in Porous Media