

26-Oct. 2026

Hall West								Hall East									
Day	Time	Session	Type	Speaker	Affiliation	Presentation Title	Chair	Time	Session	Type	Speaker	Affiliation	Presentation Title	Chair			
26-Oct	08:00-9:45	Opening Ceremony	Registration and welcome of the participants														
	09:45-9:50		Chairs' welcoming note														
	09:50-9:55		Official opening by the president of Okayama-U (Prof. Yasutomo Nasu)														
	09:55-10:10		Opening remark (Dr. Modreanu) and administrative announcements														
	10:10-11:00	Plenary		Morinobu Endo	Shinshu University	Nanocarbon Innovation for a Carbon Circular Economy	El Khakani										
	11:00-11:40	Keynote		Francois Legaré	INRS-EMT, Univ. Québec	MeV electrons generated using 100 GW level few-cycle IR laser pulses											
	11:40-12:00	Photo Session															
	12:00-13:30	Lunch Break															
	13:30-14:10	Ferroelectrics	Keynote	Yoichi Okimoto	Institute of Science Tokyo	Nonlinear Optical Studies of Electronic Ferroelectrics: Elucidating Polarization Structures and Exploring Emerging Functionalities	Teranishi	13:30-14:10	Optical Metrology / X-ray analysis	Keynote	Mathias Schubert	Lund University & University of Nebraska-Lincoln	Spectroscopic Terahertz Magnetic-Resonance Mueller Matrix Ellipsometry for characterization of quantum spin properties in broad materials classes	Modreanu			
	14:10-14:35		Invited	Andreas Ruediger	INRS-EMT, Univ. Québec	Contribution of infrared photons in photocatalysis with pyroelectric barium-titanate nanoparticles		14:10-14:35		Invited	Maria Losurdo	ICMATE-CNR, Italy	Raman, Imaging Ellipsometry and XRD Guided Processing of Sb2S3, Sb2Se3, GaSe and In2Se3 Phase-Change 2D Chalcogenides				
	14:35-15:00		Invited	Hiroki Taniguchi	Nagoya University	Optical Control of Dielectric Permittivity		14:35-15:00		Invited	Nikolas Podraza	University of Toledo	Obtaining material characteristics from successful and failed spectroscopic ellipsometry models				
	15:00-15:25		Invited	Manabu Hagiwara	Keio University	Fabrication of fine-grained multilayer ceramic capacitors via two-step sintering of bismuth-based relaxor nanoparticles		15:00-15:25		Invited	Malek Tabbal	American University of Beirut	Novel approaches in the optical characterization of the physical and nano-structural properties of functional thin films				
	15:25-15:45	Coffee Break															
	15:45-16:10	Ferroelectrics	Invited	Minoru Ryu	TAIYO YUDEN CO., LTD.	Structural Characterization of Dielectrics for Multilayer ceramic capacitors	Taniguchi	15:45-16:25	Biomaterials/Sensors	Keynote	Yanxia Hou-Broutin	French National Centre for Scientific Research	Biomimetic Opto-electronic Nose for Artificial Olfaction	Wang			
	16:10-16:35		Invited	Sou Yasuhara	Science Tokyo	New High-Throughput Ceramics Synthesis Method Using Cellulose Nano Fiber				16:25-16:50	Invited	Mounir Gaidi	University of Sharjah		Nanohybrid Materials: A New Frontier in High-Sensitivity Sensing and Biosensing		
	16:35-17:00		Invited	Yoshitaka Ehara	National defense academy	Strain Engineering in Lead Zirconate Titanate Thin Films: Control of Domain Volume Fraction and Giant Electromechanical Response					16:50 - 17:15	Invited	Kohji Mitsubayashi		Institute of Science Tokyo	Biofluorometric gas sensor for transcutaneous monitoring of blood-derived VOCs	
	17:00-17:25		Invited	Shinya Kondo	Nagoya University	Tuning Linear and Memristive Electro-Optic Responses through Dynamic Ferroelastic Domain Wall Motion in Epitaxial Rhombohedral Pb(Zr,Ti)O3 Thin Films						17:15 - 17:40	Invited		Jongmin Oh	Kwangwoon University	Solvent-Free Aerosol Deposition of High-Performance Ceramic Composite Films for Display and Sensor Applications
	17:25-17:50		Invited	Ryo Iguchi	NIMS	Thermal and thermoelectric response of a ferroelectric insulator											
	18:00-19:30	Poster Session															

Poster presentation

Yuma	Yamaguchi	Okayama university	A terahertz biosensor using silver tree-like fractal nanoparticles
Yuto	Ohmi	Okayama University	Electrochemistry for cell sensing using a terahertz chemical microscope
Miyu	Kaneda	Okayama University	Graphitization of Carbon Coating on LiFePO4 by Microwave Irradiation
Ryota	Nomura	Institute of Science Tokyo	Fabrication and Degradation Analysis of 2.5 V-class Aqueous Quasi-Solid-State Batteries
Takagimi	Sakamoto	Okayama University	SERS Biosensor for Lactate Detection Using Aptamer-Functionalized Gold Nanostructures
Takumi	Shimamoto	Okayama university	Visualization of surface potential changes in platinum-thin films exposed to hydrogen gas using a terahertz chemical microscope
Kentaro	Murata	Institute of Science Tokyo	Suppression of Water Electrolysis by Mn-Doped Li4Ti5O12 Anodes in Borate-Water-Based Quasi-Solid-State Lithium-Ion Batteries
Hiikari	Abe	Okayama University	Design of a THz Wave Phase Modulation Device Using a Perforated Graphene Metasurface
Naoki	Shinohara	Okayama University	Hydrophobicity of stearic acid-modified calcite nanoparticles investigated by molecular dynamics simulations
Ao	Shen	Waseda University	Label-Free Evaluation of Myocardial Infarction Area using a Scanning Point Terahertz Source Microscopy
Takato	Ogura	Okayama university	Dielectric Measurement of CaTiO3 Powder via Various Synthesis Route
Ryota	Tanaka	Okayama University	Effect of 24.5 GHz Millimeter-Wave Sintering on Dopant Diffusion Behavior at BaTiO ₃ -Oxide Heterointerfaces
Shintaro	Mikami	Nagoya University	Integration of Ferroelectric HfO2-Based Thin Films onto Silicon Photonic Circuits and Their Memristive Behavior
Zhengya	Niu	Waseda University	Physics-Constrained Complex-Field Zero-Shot Super-Resolution for Terahertz Biomedical Imaging
Tsujimura	Haruki	Okayama University	High-Frequency Dielectric Properties of TiO ₂ -Based Materials
Kenta	Katsushima	Okayama University	Doping effect in reduced barium titanate ceramics on DC bias characteristics
Yixin	ZHAO	Waseda University	Near-field thickness dependence of ultrathin and compact terahertz metamaterials
Yuzuki	Murakami	Okayama University	Li Conductive Interlayer Design for Stable Operation of Water-Based Quasi-Solid Li Batteries
Chihiro	Toshioka	Okayama university	Fabrication of all solid state battery utilizing 24GHz millimeter wave irradiation sintering
Haruki	Tomimatsu	Yokohama National University	Development of a Post-Analysis Method for THz Time-domain Imaging
Xue	Ding	Okayama University	Detection of Cancer Cells Using a Voltage-Tuned Terahertz Chemical Microscope

27-Oct. 2026

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27-Oct	09:00-09:40	Functional Materials / Renewable Energies	Keynote	Jong Min Yuk	Korea Advanced Institute of Science and Technology	Graphene Liquid Cell Electron Microscopy	El Khakani	09:00-09:40	Battery / Energy conversion	Keynote	Yosuke Shiratori	Institute of Science Tokyo	Three-Dimensional Aqueous-Ceramic Interfaces for Sustainable Energy Materials	Rittie
	09:50-10:15		Invited	Masayoshi Tonouchi	Okayama University	Terahertz Excitation via Exciton Dissociation in Semiconductive Carbon Nanotubes		09:40-10:05		Invited	Magda Titirici	Imperial College and AIMR Tohoku	Beyond Li: Na, K and Al based batteries-progress, challenges and prospects	
	10:15-10:30		Regular	Sabir Hussain	Tyndall National Institute, University College Cork	ALD Grown Sulfur Deficient MoS2 Based Capacitive Memristor		10:05-10:30		Invited	Rhodri Jervis	University College London	Advanced X-ray Imaging to Assess Degradation in Li Ion Battery Materials	
	10:30-10:50	Coffee Break												
	10:50-11:15	Functional Materials / Renewable Energies	Invited	My Ali El Khakani	INRS-EMT, Univ. Qué bec	"2D" Behavior in Vertically-Oriented "3D" MoS2 Thin Films Grown by Pulsed Laser Deposition for Photodetection devices	Walsh	10:50-11:15	Battery / Energy conversion	Invited	Alexander Kibler	University College London (UCL)	Engineering the electrode-electrolyte interface in next-generation batteries	Yasui
	11:15-11:40		Invited	Simona Boninelli	IMM-CNR	Advanced characterization of Bi nanostructures electrodeposited on Graphene		11:15-11:40		Invited	Hideaki Oka	Toyota Central R&D Labs., Inc.	Operando synchrotron X-ray analysis of electrode reactions leading to thermal runaway in lithium-ion batteries	
	11:40-12:05		Invited	Graham Newton	University of Nottingham	Hierarchical self-assembly of hybrid inorganic-organic polyoxometalate amphiphiles: from 0D micelles to 3D network materials		11:40-12:05		Invited	Alex Rettie	University College London	Solution-processed amorphous solid electrolytes for advanced energy storage	
	12:05-12:30	Invited	Sotaro Kuribayashi	Fujitsu Limited	From Black-Box Prediction to Materials Understanding: Practical Causal AI		12:05-12:20	Student	Seok-Hun Kim	Kwangwoon university	Moisture-Enabled Electric Generators Based on CsPb2Br5/Ceramic Composite Films Prepared by Aerosol Deposition			
	12:30-13:45	Lunch Break												
	13:45-14:10	Ferroelectrics	Invited	Tomoaki Yamada	Nagoya University	Enhanced electro-optic response of wurtzite AlN films by Sc doping	Ehara	13:45-14:10	Functional Materials / Renewable Energies	Invited	Emanuele Orgiu	INRS-EMT, Univ. Qué bec	Charge and Magnetotransport in Molecule/Quantum Material Hybrid van der Waals Heterostructures	Yoong Ahm Kim
	14:10-14:35		Invited	Shinya Tsukada	Hiroshima University	Continuous Raman and Synchrotron XRD Mapping of a Relaxor-Ferroelectric Phase Diagram Using Composition and Temperature Gradients		14:10-14:35		Invited	Christopher Howard	University College London	The production, structure and properties of phosphorene nanoribbons	
	14:35-15:00		Invited	Shintaro Yasui	Institute of Science Tokyo	Antiferroelectricity in titanite thin films		14:35-15:00		Invited	Yuji Muraoka	Okayama University	Fabrication of Metallic States in Highly Disordered Boron-Doped Amorphous Carbon Films via Precise Thermal Control in Pulsed Laser Annealing	
	15:00-15:25	Terahertz Science and Technologies	Invited	Roberto Morandotti	INRS-EMT, Univ. Qué bec	Advanced Terahertz Waveguiding and Ultrafast Microscopic Imaging for Next-Generation THz Systems	Ozaki	15:00-15:25	Invited	Anastasiia Konovalova	Technical University of Denmark	Backbone Influence on Internal Morphology of Ion-Exchange Membranes		
	15:25-15:50		Invited	Kaori Fukunaga	Yokohama National University	Combining THz imaging with other technologies in heritage science		15:25-15:50	Invited	Darren Walsh	University of Nottingham	The Role and Performance of Ultrathin Carbon Coatings on Electrocatalysts for Oxygen Evolution		
	15:50-16:10	Coffee Break												
	16:10-16:35	Terahertz Science and Technologies	Invited	Luca Razzari	INRS-EMT, Univ. Qué bec	A High-Speed Platform for Terahertz Time-Domain Imaging	Ozaki	16:10-16:35	Functional Materials / Sensors	Invited	Kulbir Ghuman	INRS-EMT, Univ. Qué bec	Designing Sustainable Ammonia Synthesis Catalyst via Advanced Computational Techniques	Orgiu
16:35-17:00	Invited		Kazunori Serita	Waseda University	Terahertz Point Source Technology Toward Single-Cell Imaging	16:35-17:00		Invited		Qiuchen Dong	X'an Jiaotong-Liverpool University	Engineered Oxygen Vacancy in Metal oxide-based low operating temperature gas sensor construction and its application in early diagnosis of colorectal cancer		
17:00-17:25	Invited		Tomofumi Ikari	Nihon University	Advanced Applications of 300-GHz-Band THz-FMCW Radar: Two-Beam Walk-Through Body Scanners and High-Precision Vital Sensing	17:00-17:25		Invited		Masazumi Fujiwara	Okayama University	Nanodiamond quantum thermometers: material development and applications		
17:25-17:50	Invited		Kodo Kawase	Nagoya Univ.	Evolution of terahertz parametric generation and detection	17:25-17:50		Invited		Takayoshi Katase	Institute of Science Tokyo	Unusual Ion Substitution Effects on Carrier control in Sn-Based Chalcogenide Semiconductors		
17:50-18:10	Regular		Ming Che	Kyushu University	Low-Cost FDM-Printed COC Lens Integration for High-Directivity 275-GHz On-Chip THz Emission	17:50-18:15		Invited		Vlad Badiita	Institute of Microstructure Technology (IMT), Karlsruhe Institute of Technology (KIT)	Miniaturized nuclear magnetic resonance instrumentation		
19:00-21:00	Banquet & Poster Award (Okayama Castle)													

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28-Oct	09:00–09:40	Terahertz Science and Technologies	Keynote	Koichiro Tanaka	RIKEN	TBD	Kiwa	09:00–09:25	JASMINE Session	Invited	Mircea Modreanu	Tyndall National Insititute	Oxides Beyond CMOS: Ultrafast, Low-Power, and Sustainable Electronics	Mencarelli
	09:40–10:05		Invited	Jean-Francois Roux	CROMA, University Savoie Mont-Blanc, CNRS	THz guided pulses with variable shape for time resolved electronic transport in 2DEG		09:25–09:50		Invited	Sile Nic Chormaic	OIST Graduate University	Using metamaterial optical tweezers for nanoparticle trapping and biosensing in configurable arrays	
	10:05–10:30		Invited	Edgardo Saucedo	Universitat Politècnica de Catalunya (UPC)	Kesterite-type semiconductors for advanced optoelectronic applications		09:50–10:15		Invited	Olivier Durand	Univ Rennes, INSA Rennes, CNRS, Institut FOTON	Monolithic CIGSe/Si tandem solar cell with a GaP interlayer	
										10:15–10:40	Invited	Luca Pierantoni	Università Politecnica delle Marche	
	10:40–11:00	Coffee Break												
	11:00–11:25	Terahertz Science and Technologies	Invited	TsuneYuki Ozaki	INRS-EMT, Univ. Qué bec	Advanced terahertz spectroscopy and imaging techniques	Kiwa	11:00–11:25	Biomaterials/Sensors	Invited	Yue Yu	MolBIS, AIST	Engineering Programmable Covalent Organic Frameworks for Targeted Cancer Therapy	Galdi
	11:25–11:50		Invited	Hiroaki Minamide	RIKEN	Backward parametric interaction as a coherent THz-optical interface		11:25–11:50		Invited	Yusuke Tahara	Shinshu University	Development of sensor technologies for the engineering measurement of taste information	
	11:50–12:15		Invited	Miyamaru Fumiaki	Shinshu University	Dynamic frequency manipulation of terahertz waves using temporal boundaries		11:50–12:05		Student	Won-Il Ahn	Kwangwoon university	BaTiO3/KCl Composite Films via Aerosol Deposition for Enhanced Low-Humidity Capacitive Sensing	
	12:15–13:30	Lunch Break												
	13:30–13:55	Terahertz Science and Technologies	Invited	Eiichi Oishi	Ritsumeikan University	Chiral phonons in chiral crystals investigated by circularly polarized Raman spectroscopy	Razzari	13:30–13:55	Battery / Energy conversion	Invited	Kazuma Gotoh	JAIST	Operando twins for secondary batteries: recent advances in methodology and applications	Teranishi
	13:55–14:20		Invited	Yingwei Li	Yanshan University	The Effects of THz Stimulation on Neural Rhythms in the Prefrontal Cortex of Mice		13:55–14:20		Invited	Yoon Ahm Kim	Chonnam National University	Carbon Nanotubes in Electric Vehicle Batteries: Opportunities and Challenges	
	14:20–14:45		Invited	Noriaki Kida	JASRI and RIKEN SPring-8 Center	Terahertz pump and X-ray probe spectroscopy of solids		14:20–14:45		Invited	Lee Johnson	University of Nottingham	Synthetic Model Electrodes for Characterisation of Interphases in Lithium-Ion Batteries	
	14:45–15:10		Invited	Jeeyoon Jeong	Kangwon National University	Terahertz Nano-slots for Effective and Multi-resonant Ultrastrong Light-matter Coupling		14:45–15:10		Invited	Matthias Agne	University of Oregon	Assessing degradation driving forces at solid-state battery interfaces	
	15:10–15:30	Coffee Break												
	15:30–15:55	Terahertz Science and Technologies	Invited	Sota Mine	Okayama University	Research on compact terahertz sources	Razzari	15:30–15:55	Thermoelectric Materials	Invited	Koichiro Suekuni	Kyushu University	Structural Design and Thermoelectric Properties of Cu–S Based Materials	Katase
	15:55–16:20	Biomaterials/Sensors	Invited	Sebania Libertino	CNR-IMM sede principale	Advanced Micro- and Nanostructured Sensors for Environmental and Water Quality Analysis	15:55–16:20	Invited		Akira Nagaoka	University of Miyazaki	High-performance thermoelectric devices based on kesterite and chalcopyrite compounds		
	16:20–16:45		Invited	Davide Mencarelli	Università Politecnica delle Marche	Multiphysics modelling of light–matter interaction, from Cherenkov radiation to magnetoelectric antennas	16:20–16:45	Invited		Hidefumi Takahashi	The University of Osaka	Giant thermoelectric effect in a polar charge-density-wave semiconductor		
16:45–17:10	Invited		Xiao Wu	Fukuoka Institute of Technology	Order parameter-driven sweetness sensing on neutral sugars using boronic acid-functionalized polymers	16:45–17:10	Invited	Aichi Yamashita		NIMS	Development of High-Entropy-Type Thermoelectric Thin Films			
17:10–17:35	Invited		Yasushi Takahashi	Okayama University	Silicon Photonic Charge Sensor with Proton Radiation Tolerance for Spacecraft Applications	17:10–17:35	Invited	Hidetomo Usui		The University of Electro-Communications	Electronic Structure Engineering of Unconventional Thermoelectric Materials			
							17:35–18:00	Invited	Hiroyasu Matsuura	AIST	Thermoelectric effects derived from various heat flows			
18:00–18:15	Closing													