Nov- 16 2022

Opening (11:00-11:20)					
Chairs: Toshihiko Kiwa (Okayama Univ.)					
We1-1	Yuusuke	Yamaguchi	University of Fukui, Japan	Development of Sub-THz Gyrotron System for Application to Biological Science Research (invited)	11:20-11:45
We1-2	Hitoshi	Ohta	Kobe University, Molecular Photoscience Research Center	Development of Multi-Extreme THz ESR and Its Application to Study Triangular Lattice Antiferromagnet CsCuCl3	11:45-12:00
We1-3	Noriaki	Tsurumachi	Faculty of Engineering and design, Kagawa university	Strong coupling interactions in THz microcavities containing magnetic metamaterials	12:00-12:15
We1-4	Hikaru	Takehara	Osaka University	THz motion of proton in the solid electrolyte of proton-conducting fuel cell	12:15-12:30
Lunch (12:30-14:30)					
Chairs: Masaya Nagai (Osaka Univ.) and Yuma Takida (RIKEN)					
We2-1	Chia	Elbert	Nanyang Technological University, Singapore	Controlling THz emission in topological materials (invited)	14:30-14:55
We2-2	Yuya	Ueno	Tohoku University	Modulation of DNA damage repair in living cells by THz irradiation	14:55-15:10
We2-3	XUE	DING	Okayama University	Development of Lung Cancer Cell Detection Technology in Liquid Phase Using a Terahertz Chemical Microscope	15:10-15:25
We2-4	Hiromichi	Hoshina	RIKEN Center for Advanced Photonics	THz irradiation effects on morphology of actin protein and cell function	15:25-15:40
We2-5	Sota	Yoshida	Okayama University	Measurement of Calcium Ions Using a Terahertz Chemical Microscope	15:40-15:55
We2-6	Lou Serafin	Lozada	Kobe University	Low-frequency spectra of dried and hydrated montmorillonite studied by THz-TDS: structural formation of confined water	15:55-16:10
Break (16:10-16:40)					
Chairs: Hiromichi Hoshina (Riken) and Ikufumi Katayama(Yokohama Natl. Univ.)					
We3-1	Hideki	Hirayama	RIKEN Jappan	Recent Progress of GaAs/AlGaAs THz-QCLs toward Room Temperature and High-Power Operation (invited)	16:40-17:05
We3-2	Giacomo	Scalari	ETH, Swiss	Frequency comb generation and high temperature THz Quantum Cascade Lasers (invited)	17:05-17:30
We3-3	Thomas	Kurner	TU Braunschweig, Germany	Design, Simulation, Planning and Demonstration 300 GHz Backhaul Links (invited)	17:30-17:55
We3-4	Serge	Bielawski	University of Lille, France	Single-shot THz detection of synchrotron radiation (invited)	17:55-18:20

Nov- 17 2022

Chairs: Katsuhiro Ajito (IPUT Osaka)					
Thu1-1	Tomofumi	Ikari	RIKEN/SpectraDesign, Japan	Development of Terahertz security body scanner using sub THz FMCW radar imaging (invited)	9:30-9:55
Thu1-2	Mary Clare	Escaño	Research Center for Development of Far-Infrared Region, University of Fukui	Direct and atomically precise probing and identification of the defect origin of two-step photon absorption in low-temperature GaAs by first-principles spin-orbit calculations and STM/STS measurements	9:55-10:10
Thu1-3	Ryo	Tamaki	KISTEC, Yokohama National University	Chirped-pulse up-conversion spectroscopy with dispersion compensation using a Yb-doped fiber laser	10:10-10:25
Thu1-4	Yuma	Takida	RIKEN Center for Advanced Photonics, RIKEN	Thin lithium niobate substrate as dichroic beam splitter for backward terahertz-wave parametric oscillator	10:25-10:40
				Break (10:40-11:00)	
Chair: Masahiko Tani (Univ. Fukui)					
Thu2-1	Kodo	Kawase		Lecture of Terahertz Technology Prize	11:00-11:30
Thu2-2	Ken	Wood		Lecture of Terahertz Technology Prize	11:30-12:00
				Prize Ceremony and Group Photograph	12:00-12:15
				Lunch (12:30-14:00)	
Thu3-1	Hiromasa	Ito		Tutorial (Symposium)	14:00-15:00
Poster1				Symposium Poster Session	15:00-16:30
Poster2				FTT Poster Session	16:30-18:00

Nov- 18 2022

Chair: Seigo Ohno (Tohoku Univ.)					
Fr1-1	Mona	Jarrahi	University of California Los Angeles, USA	Plasmonic terahertz detection technology and applications (invited)	9:30-9:55
Fr1-2	Akira	Satou	Tohoku University	Drastic Improvement on Pulse Response of Grating-Gate Plasmonic THz Detector by Introduction of Inverted-HEMT Structure	9:55-10:10
Fr1-3	Naoya	Kawai	Hamamatsu Photonics, Japan	Terahertz image intensifier based on field enhancing metasurfaces (invited)	10:10-10:35
Fr1-4	Harumi	Asada	Tokyo University of Agriculture and Technology	Metasurface demonstrating both high refractive index and low reflectance in the infrared region	10:35-10:50
Break (10:50-11:10)					
Chair: Akira Satou (Tohoku Univ.)					
Fr2-1	Ranjang	Singh	Nanyang Technological University, Singapore	Topological integrated circuits and metasurfaces for THz applications (invited)	11:10-11:35
Fr2-2	Ayato	Iba	Institute of Laser Engineering, Osaka University	Sub-diffraction focusing with THz super-oscillatory lens	11:35-11:50
Fr2-3	Akifumi	Kasamatsu	NICT, Japan	A Review of Electrical Terahertz Communications Technology (invited)	11:50-12:15
Fr2-4	Hiroshi	Hamada	NTT DOCOMO, INC.	150-GHz 20-Gb/s Real-time Data Transmission Using Channel-bonding Technique	12:15-12:30
Lunch (12:20-14:30)					
Chair: Shinichirou Hayashi (NICT)					
Fr3-1	Katsumasa	Yoshioka	NTT, Japan	Ultrafast and terahertz responses of graphene devices (invited)	14:30-14:55
Fr3-2	Yasushi	Koyama	Canon, Japan	High-Power Terahertz Source over 10 mW based on Resonant-Tunneling Diode (invited)	14:55-15:20
Fr3-3	Van Ta	Mai	Tokyo Institute of Technology	Array configuration for high output power in structure-simplified resonant-tunneling-diode terahertz oscillator	15:20-15:35
Closing (15:35-16:00)					