



Terahertz and Millimeter Waves

Sep.23 Saturday, VIP Room , 3F	
Prsider: Zhiming Huang, Shanghai Institute of Technical Physics, Chinese Academy of Sciences	
13:30-13:50 (Invited)	Terahertz semiconductor quantum cascade lasers and applications Juncheng Cao Shanghai Institute of Microsystems and Information Technology, Chinese Academy of Sciences
13:50-14:10 (Invited)	Spatial modulation of terahertz beams for imaging and scanning Jierong Cheng Nankai University
14:10-14:30 (Invited)	Enhancing Terahertz Communications Coverage with ISAC-Assisted Beam Management Zhi Chen University of Electronic Science and Technology of China
14:30-14:50 (invited)	High-Energy Strong-Field THz Radiation from Lithium Niobate Crystals Xiaojun Wu Beihang University
14:50-15:10 (Invited)	High-speed High-power UTC Photodiodes Baile Chen ShanghaiTech University
15:10-15:25	Coffee Break
Prsider: Huanjun Chen, Sun Yat-sen University	
15:25-15:45 (Invited)	Terahertz beam steering and spin conversion based on active cascaded metasurfaces Fei Fan Nankai University
15:45-16:05 (Invited)	The development on 1.0THz Vacuum Electronic Device Terahertz Radiation Source Wenxin Liu Aerospace Information Research Institute,Chinese Academy of Sciences
16:05-16:25 (Invited)	Two dimensional electron gas in rock salt semiconductor heterojunction for high-performance infrared and THz detectors Huizhen Wu Zhejiang University
16:25-16:35	ESIT2023-0802-1 Realization of a novel multimode waveguide with photonic band gap hopping based on coupled-resonator optical waveguide theory Yonghui Zheng ¹ , Chang Wang ¹ , Zhiyong Tan ¹ , ZhenZhen Zhang ¹ , Jun Jiang ² , Binbin Cheng ² , Cao Juncheng ¹ 1.Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China; 2.Institute of Electronic Engineering, China Academy of Engineering Physics, China
16:35-16:45	ESIT2023-0809-24 Study on the characteristics of glutamic acid 5-methyl ester by photoconductive THz detector array Yusong Zhang ¹ , Wei Shi ¹ , Zhiquan Wang ² , Lei Yang ¹ , Zhi Jin ¹ , Yifan Li ¹ 1.Xi'an University of Technology, China; 2.Weinan Normal University, China



16:45-16:55	ESIT2023-0807-12 Magnetic-Field Free Intense Terahertz Radiation from Antiferromagnetic-Ferromagnetic Heterostructures Wu xiaojun, Liu shaojie Beihang universty
16:55-17:05	ESIT2023-0809-12 Ultrafast Strong-field terahertz nonlinear nanometasurfaces Jiahua Cai ¹ , Sai Chen ¹ , Chunyan Geng ¹ , Jianghao Li ¹ , Baogang Quan ² , Xiaojun Wu ¹ 1.Beihang University, China; 2.Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, China
17:05-17:15	ESIT2023-0808-3 Terahertz Imaging Technology by Self-mixing Interferometry Jiaxuan Cai, Weidong Chu Institute of Applied Physics and Computational Mathematics, China
Sep.24 Sunday, VIP Room , 3F	
Presider: Kaizhang, Suzhou Institute of Nano-Tech and Nano-Bionics,CAS	
8:30-8:50 (Invited)	CMOS Terahertz Image Sensors Liyuan Liu Institute of Semiconductors,Chinese Academy of Sciences
8:50-9:10 (Invited)	Detection of optical properties of chiral substances by pulsed terahertz holographic detector Wei Shi Xi'an University of Technology
9:10-9:30 (Invited)	Research on Terahertz non-reciprocal Photonic Structures Yun Shen Nanchang University
9:30-9:40	ESIT2023-0808-6 Studies on Self-mixing Interference in Distributed Feedback and Broadband Terahertz Quantum Cascade Lasers Ning Yang ¹ ;Lei Ge ¹ ;Yan Xie ² ;JiaXuan Cai ¹ ;Weidong Chu ¹ 1.Institute of Applied Physics and Computational Mathematics;2.Tsinghua University
9:40-9:50	ESIT2023-0808-8 Broadband THz photon-type detectors Peng Bai ^{1*} ;Weidong Chu ² ;Ning Yang ² Institute of Applied Physics and Computational Mathematics
9:50-10:00	ESIT2023-0809-27 The conduction characteristics of Mn3Sn thin films are investigated by terahertz time-domain spectroscopy TingGui Yin ^{1,2} ;Tianyu Zhang ^{1,2} ;Dong Gao ^{3,4} ;Fu Tang ^{1,2} ;Zechuan Bin ^{1,2} ;Jun Qin ^{3,4} ;Longjiang Deng ^{3,4} ;Shenggang Liu ^{1,5} ;Lei Bi ^{3,4} ;Min Hu ^{1,2} 1.Terahertz Research Center, School of Electronic Science and Engineering, University of Electronic Science and Technology of China;2.Key Laboratory of Terahertz Technology, Ministry of Education;3.National Engineering Research Center of Electromagnetic Radiation Control Materials, University of Electronic Science and Technology of China;4.State Key Laboratory of Electronic Thin-Films and Integrated Devices, University of Electronic Science and Technology of China;5.key Laboratory of Terahertz Technology, Ministry of Education



10:00-10:15	Coffee Break
Presider: Chaohai Du, Peking University	
10:15-10:35 (Invited)	Terahertz spectral imaging of biological samples Huabin Wang Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
10:35-10:55 (Invited)	The research and application of terahertz spectroscopy biosensor and fast imaging Caihong Zhang Nanjing University
10:55-11:15 (Invited)	Polaritonic van der Waals crystals and their applications in terahertz and mid-infrared optoelectronics Huanjun Chen Sun Yat-sen University
11:15-11:35 (Invited)	Narrow-gap 2D Semiconductors for Infrared and Terahertz Optoelectronics Kai zhang Suzhou Institute of Nano-Tech and Nano-Bionics,CAS
11:35-11:45	ESIT2023-0829-9 Highly sensitive terahertz metamaterial sensors based on electromagnetic-like induction transparency Jia Zhiyuan;Zhang Yuan;Ge Hongyi;Jiang Yuying;Wu Xuyang;Ji Xiaodi;Sun Zhenyu;Cui Guangyuan Henan University of Technology
11:45-11:55	ESIT2023-0804-2 Room-Temperature Highly Sensitive Terahertz Detection Driven by Novel Quantum States Zhuo Dong;Kai Zhang Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences
11:55-12:05	ESIT2023-0829-8 Circular Smith-Purcell Radiation Stimulated by Free-electron Yulu Lei;Chaohai Du;Ziwen Zhang Peking University
Presider:Jierong Cheng, Nankai University	
13:30-13:50 (Invited)	Investigation on Space-based Infrared Terahertz Detectors with Blocked Impurity Bands Ning Dai Shanghai Institute of Technical Physics, Chinese Academy of Sciences
13:50-14:10 (Invited)	Surface Plasmons Enable Terahertz Free Electron Radiation Chaohai Du Peking University
14:10-14:30 (Invited)	Terahertz ultra-sensitive detection technology in organic matter Yiming Zhu University of Shanghai for Science and Technology
14:30-14:50 (Invited)	Research and Demonstration of High-Efficiency Terahertz Testing Technology Jianqin Deng CETC41



14:50-15:10 (Invited)	Electron- and terahertz- induced excitations of a single water molecule encapsulated in a C60 fullerene Shaoqing Du Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
15:10-15:20	ESIT2023-0816-3 Research and optimization of real-time high-resolution near-field imaging in THz Wei Zhang ¹ ;Shengxin Yang ¹ ;Da Tian ¹ ;Caihong Zhang ¹ ;Biaobing Jin ¹ ;Kebin Fan ¹ ;Jingbo Wu ² Nanjing University
15:20-15:30	ESIT2023-0825-3 Design and Fabrication of Uncooled THz Focal Plane Array Detector Wenwen Luo ¹ ;Liangshan Qian ² ;Jiguang Chi ² ;Feng Pan ² ;Jian Qian ² ;Xiaorong Zhu ² ;Zhigang Ma ² ;Xiang Liu ² ;Haitao Liu ² ;Lijun Jiang ² 1.Hangzhou Dali Microelectronics Co, Ltd.;2.Zhejiang Dali Technology Co. Ltd
15:30-15:45	Coffee Break
<p>Presider: Shaoqing Du, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences</p>	
15:45-16:05 (Invited)	The interfacial tunneling effect regulates photodetector's performances Feng Qiu Yunnan University
16:05-16:25 (Invited)	Terahertz CT imaging technology Weidong Hu Beijing Institute of Technology
16:25-16:45 (Invited)	Status of P-on-n Double-Layer Heterojunction HgCdTe Infrared Focal Plane Arrays Xingxin Liu North China Research Institute of Electro-Optics
16:45-16:55	ESIT2023-0829-10 Deep Learning-based method for concealed object detection in Terahertz images Ge Zihao;Zhang Yuan;Ge Hongyi;Jiang Yuying;Jia Zhiyuan;Wu Xuyang Henan University of Technology
16:55-17:05	ESIT2023-0809-16 The results of yttriumirongarnetfull tensormaterial parameter retrieval in the terahertz band Zechuan Bin ^{1,2} ;Qindong Xie ^{3,4} ;Tianyu Zhang ^{1,2} ;Fu Tang ^{1,2} ;Yuxuan Wang ^{3,4} ;Peiheng Zhou ^{3,4} ;Min Hu ^{1,2} 1.Terahertz Research Center, School of Electronic Science and Engineering, University of Electronic Science and Technology of China, China;2.Key Laboratory of Terahertz Technology, Ministry of Education, China;3.National Engineering Research Center of Electromagnetic Radiation Control Materials, University of Electronic Science and Technology of China, China;4. Key Laboratory of Multi-spectrum Wave-absorbing Materials and Structures, Ministry of Education (Class B), University of Electronic Science and Technology of China, China
17:05-17:15	ESIT2023-0813-1 Observation of ultra-confined in-plane anisotropic plasmon polaritons in low dimensional materials via THz nanoscopy Shu Chen ¹ ;Yiming Zhu ¹ University of Shanghai for Science and Technology
17:15-17:25	ESIT2023-0807-3 Terahertz chirality construction and flexible manipulation based on liquid crystal integrated metasurfaces Yunyun Ji;Fei Fan;Shengjiang Chang Nankai university
17:25-17:35	ESIT2023-0803-2 Terahertz Semiconductor Dual-Comb Sources Employing a Self-reference Method Ziping Li;Xuhong Ma;Kang Zhou;Binbin Liu;Juncheng Cao;Hua Li Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences