

Poster Session

Session 1: Infrared Physics and Technology	
ESIT2022-0801-1	<p>Suppression and simulation of stray radiation in infrared optical system Jianguo Tian^{1,2*}, Mingqian Shi^{1,2}, Linbao Hou^{1,2}, Jicai Rui^{1,2}, Wen Gao^{1,2} 1.Shanghai Aerospace Control Technology Institute, China; 2.Shanghai Key Laboratory of Aerospace Intelligent Control Technology, China</p>
ESIT2022-0804-7	<p>Research on near infrared spectroscopy based on DMD Yujuan Liu^{1,2,3}, Yanda Liu^{1,2,3}, Ying Song^{3,4,5*} 1.Key Laboratory of Geo-exploration Instruments, Ministry of Education of China Jilin University, China; 2.National Engineering Research Center of Geophysics Exploration Instruments Jilin University, China; 3.College of Instrumentation & Electrical Engineering Jilin University, China; 4.Key Laboratory of Geo-exploration Instruments, Ministry of Education of China Jilin University, Changchun, China; 5.National Engineering Research Center of Geophysics Exploration Instruments Jilin University, Changchun, China</p>
ESIT2022-0806-3	<p>Theoretical achievement of 72 GHz bandwidth of wafer-bonded Ge/Si PIN detector with polycrystalline interlayer Yuan Huang¹, Chong Wang^{1*}, Shaoying Ke^{2*} 1.Yunnan University, China; 2.Minnan Normal University, China</p>
ESIT2022-0806-4	<p>Effect of by-product bubbles of direct bonding on the performance of GeSn/Si PIN photodetector Jianfei Chai¹, Shaoying Ke^{2*}, Chong Wang^{1*} 1.Yunnan University, China; 2.Minnan Normal University, China</p>
ESIT2022-0807-4	<p>Nanomesh Dielectric Matesurface Based High-Q Fliters For Spectral Integrated Infrared Detector Xiangxiao Ying¹, Huilian Tian^{1,2}, Jian Zhou¹, Min Huang¹, Yi Zhou^{1,3*}, Jianxin Chen^{1,3*} 1. Key Laboratory of Infrared Imaging Materials and Detectors, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2. College of Science, University of Shanghai for Science and Technology, China; 3. Research Center of New Photodetector and Imaging, School of Physics and Optoelectronic Engineering, Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China</p>
ESIT2022-0811-8	<p>Prioritization Testing for Infrared Object Detection based on Significant Feature Mutation Haibin Zheng¹, Yunjie Yan¹, Jinyin Chen^{1*}, Haibo Jin¹, Ruoxi Chen¹, Qi Xuan¹ 1.Zhejiang University of Technology, China</p>
ESIT2022-0812-2	<p>A Hybrid Approach for Metal Element Identification by using Laser-Induced Breakdown Spectroscopy data Haofeng Zeng¹, Zhuoxian Zhang¹, Sicong Liu^{1*} 1.Tongji University, China</p>

ESIT2022-0812-9	<p>Liquid Phase Epitaxy(LPE) growth of the room-temperature InAs-based mid-infrared photodetector</p> <p>Zezhong Chen¹, Yongfei Duan¹, Hongyu Lin², Zhenyu Zhang¹, Hao Xie³, Shuhong Hu^{3*}, Ning Dai^{4*}</p> <p>1.School of Material and Chemistry, University of Shanghai for Science and Technology, China; 2.Zhejiang Lab, China; 3.Shanghai Institute of Technical Physics of the Chinese Academy of Science, China; 4.Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China</p>
ESIT2022-0814-1	<p>Manipulation of the composition, morphology and photoelectric properties of titanium oxide nanostructures</p> <p>Yan Chen^{1,2,3}, Ao Li^{2,1}, Xiuli Fu², zhijian Peng^{1*}, Zhenhua Ye^{3*}</p> <p>1.China University of Geosciences Beijing, China; 2.Beijing University of Posts and Telecommunications, China; 3.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0814-16	<p>Investigation on p-type Doping of P_{Bn} unipolar Barrier InAsSb Devices</p> <p>Jian Zhang^{1*}, Chang Chao¹, Yin Hanxiang¹, Deng Gongrong¹, Kong Jincheng^{1*}, Li Yanhui¹</p> <p>1.Kunming Institute of Physics, China</p>
ESIT2022-0814-17	<p>Broadband chaos of interband cascade laser</p> <p>Ran Yin^{1,2}, Zhiwei Jia¹, Ke Yang^{1,2}, Jinchuan Zhang^{1*}, Shu-Man Liu^{1,2}, Ning Zhuo¹, Shen-Qiang Zhai¹, Jun-Qi Liu^{1,2}, Li-Jun Wang^{1,2}, Feng-Qi Liu^{1,2}</p> <p>1.Key Laboratory of Semiconductor Materials Science, Institute of Semiconductor, CAS, China; 2.Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, China</p>
ESIT2022-0814-18	<p>Long-wave infrared P_πBN photodetectors based on InAs/GaSb type-II superlattice</p> <p>Zhi Jiang¹, Junbin Li¹, Xuchan Zhou^{1*}, Haipeng Wang¹, Yanhui Li¹, Jincheng Kong^{1*}</p> <p>1.Kunming insititute of physics</p>
ESIT2022-0814-7	<p>LEC-MTNN: A Novel Multi-frame Infrared Small Target Detection Method based on Spatial-Temporal Patch-Tensor</p> <p>Yuan Luo¹, Xiaorun Li^{1*}, Shuhan Chen¹, Chaoqun Xia²</p> <p>1.Zhejiang University, China; 2.Wenzhou University, China</p>
ESIT2022-0815-10	<p>Hot Carrier-Triggered High Speed Infrared Photodetectors based on Quantum Dots</p> <p>Xinning Huang¹, Tengteng Jiang¹, Jinhong Chen¹, Tie Lin¹, Jingjing Liu¹, Tianle Guo^{1*}</p> <p>1.Shanghai Institute of Technical Physics Chinese Academy of Sciences, China</p>
ESIT2022-0815-11	<p>Dual band infrared picture-in-picture optical system design</p> <p>Xuezhuan Ding^{1*}, SiLi Gao¹, Yang Yu¹, Yi Jian¹, JiangQing Huang¹, Panwei Zhou¹, Fanming Li¹</p> <p>1.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0815-13	<p>Hybrid, multi-channel infrared detectors based on narrow bandgap semiconductors</p> <p>Xuechao Yu^{1*}, Weijian Zhou¹</p> <p>1.Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), CAS, China</p>
ESIT2022-0815-18	<p>High performance very long wave infrared quantum cascade detector</p> <p>Kai Guo^{1,2}, Kun Li², Yi Xuan Zhu², Jun Qi Liu^{2*}, Feng Qi Liu², Xiao Hua Wang^{1*}, Zhi Peng Wei^{1*}</p> <p>1.Changchun University of Science and Technology, China; 2.Institute of Semiconductors, Chinese Academy of Sciences, China</p>
ESIT2022-0815-7	<p>Long-wave infrared GaAs/AlGaAs quantum well hyperspectral detector</p> <p>Tianyun Zhu^{1,2}, Zeshi Chu^{1,2}, Jing Zhou^{1,2*}, Ning Li^{1,2}, Xiaoshuang Chen^{1,2}, Wei Lu^{1,2}</p> <p>1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China</p>

ESIT2022-0816-2	<p>High-performance room-temperature mid-wave infrared photodetector based on black phosphorus/HgCdTe van der Waals heterojunction Hanxue Jiao¹, Xudong Wang^{1*}, Jianlu Wang^{1,2,3*}, He Hu⁴, Jun Ge¹, Tie Lin¹, Hong Shen¹, Xiangjian Meng¹, Junhao Chu¹ 1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Frontier Institute of Chip and System, Fudan University, China; 3.Institute of Optoelectronics, Fudan University, China; 4.Unit 32184 of PLA, China</p>
ESIT2022-0816-3	<p>Pixel-scale metasurface splitter for infrared three-color detector Jindong Wang^{1,2,3} 1.Shanghai Institute of Technical Physics, China; 2.Key Laboratory of Infrared Imaging Materials and Devices, China; 3.University of Chinese Academy of Sciences, China</p>
ESIT2022-0816-4	<p>Characterization of gain and excess noise factor for mid-wavelength infrared HgCdTe electron avalanche photodiodes Dan Yang^{1,2,3}, Huijun Guo¹, Liao Yang¹, Lu Chen¹, Chun Lin^{1,2*}, Ruijun Ding^{1,2*} 1.Key Laboratory of Infrared Imaging Materials and Detectors, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.School of Information Science and Technology, ShanghaiTech University, China; 3.University of Chinese Academy of Sciences, China</p>
ESIT2022-0816-8	<p>Arrayed focusing hyperbolic phonon polaritons on biaxial van der Waals crystals Lei Ma¹, Liaoxin Sun^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0817-3	<p>A multi-shells prediction target reporting algorithm based on aerial three-dimensional trajectory estimation Juan Yue¹, Sili Gao¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0818-1	<p>High performance HgCdTe infrared detectors for Wide Swath Imager instrument onboard DQ-1 satellite Hui Qiao^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0818-3	<p>Design of Cooled Infrared Bionic Compound Eye Optical System with Large Field-of-view Yang Yu^{1,2}, Ying-hao Chi^{1,2}, Lin-han Li^{1,2,3}, Xiao-yu Wang^{1,2,3}, Jun Chen^{4,5,6}, Juan Yue^{1,2}, Yu-zhang GU^{7*}, Hai-feng Su^{8*}, Si-li Gao^{1,2*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Key Laboratory of Infrared Detection and Imaging Technology, Chinese Academy of Sciences, China; 3.University of Chinese Academy of Science, China; 4.School of Automation, China University of Geosciences, China; 5.Hubei Key Laboratory of Advanced Control and Intelligent Automation for Complex Systems, China; 6.Engineering Research Center of Intelligent Technology for Geo-Exploration, Ministry of Education, China; 7.Shanghai Institute of Microsystem and Information Technology, China; 8.Shanghai University, China</p>
ESIT2022-0819-10	<p>A study of HgCdTe HOT MW infrared detector BiSong Tan^{1*}, KeJun Li¹, JiangWei Yan¹, Yu Du¹, JianHong Mao¹, TianQing Chen¹, ChengPan Peng¹ 1.Zhejiang JueXin Microelectronics Co., Ltd, China</p>
ESIT2022-0819-11	<p>Ultra-sensitive polarization-resolved black phosphorus homojunction photodetector defined by ferroelectric domains Shuaiqin Wu¹, Yan Chen¹, Xudong Wang^{2*}, Jianlu Wang^{1*} 1.Fudan University, China; 2.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>

ESIT2022-0819-6	<p>The Relation between the (111)A/B face of CdZnTe and the IR-Transmittance in the annealing process Chao Xu¹, Changhe Zhou¹, Shangshu Li¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0819-8	<p>Research progress in brazing of Cf/SiC composites with metals Tong Zhao^{1,2}, Defeng Mo^{1,2*}, Jun Li¹, Cui Fan¹, Xue Li¹, Haimei Gong^{1*} 1.Shanghai Institute of Technical Physics, China; 2.University of Chinese Academy of Sciences, China</p>
ESIT2022-0820-9	<p>Improved infrared remote sensing image mosaic based on thin plate spline theory Xiaoyu Wang¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0821-12	<p>Improved YOLOv5 Based on Hybrid Backbone for Infrared Small Target Detection on Complex Backgrounds Xinyi Ye^{1,2}, Li Fanming^{2*} 1.ShanghaiTech University, China; 2.Shanghai Institute of Technical Physics Chinese Academy of Science, China</p>
ESIT2022-0821-14	<p>Investigation of large-scale chip hybridizing connectivity on surface warpage Huihao Li^{1,2}, Zhenhua Ye^{1*} 1.Key Laboratory of Infrared Imaging Materials and Detectors, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China;</p>
ESIT2022-0821-15	<p>Biological Phototransistor with Memory Function Based on Photosensitive Protein and Inorganic Semiconductor Materials Wenqing Liu¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0821-17	<p>Research of IRFPA ROIC for Astronomy Applications Qinghua Liang¹, Ruijun Ding^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Science, China</p>
ESIT2022-0821-24	<p>A low-power, high-speed programmable arbitrary windowing infrared focal plane readout circuit HongYi WANG^{1,2}, WenGang TAO^{1,3}, YiFan LU^{1,2}, SongLei HUANG^{1*}, JiaXiong FANG^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China; 3.ShanghaiTech University, China</p>
ESIT2022-0821-5	<p>Research on Infrared Target Detection Algorithm Inspired by Insect Compound Eye Vision System Lihan Li¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Science, China</p>
ESIT2022-0821-8	<p>A high-speed infrared wide spectrum thermometer for micro region temperature measurement Nili Wang^{1*}, Qizhi Tian¹, Yi Jian¹, Xiangyang Li¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China;</p>
ESIT2022-0822-10	<p>Mid-infrared quantum cascaded laser based on MOCVD growth Yupei Wang^{1,2}, Yang Cheng^{2,3}, Wu Zhao^{2,3,1}, Shaoyang Tan², Yintao Guo², Bo Li², Jun Wang^{2,3,1*}, Dayong Zhou³ 1.Sichuan University, China; 2.Suzhou Everbright Photonics Co., Ltd, China; 3.Gusu Lab, China;</p>
ESIT2022-0822-17	<p>Study on small pitch total internal reflection quantum well infrared focal plane array devices Enshan Shao¹, Fucheng Yang², Hong Huang², Xiangyang Li^{3*} 1.ShanghaiTech University, China; 2.University of Shanghai for Science and Technology, China; 3.Shanghai Institute of Technical Physics, Chinese Academy of Science, China</p>

ESIT2022-0822-20	<p>Overview of hybridization technology for high density infrared focal plane array Pengfei Bao¹, Xianliang Zhu¹, Dafu Liu^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0822-25	<p>Design of short-wave infrared focal plane readout circuit based on 5μm ultra-small pixel Yifan Lu¹, Hongyi Wang¹, Wengang Tao^{1,2}, Xue Li¹, Songlei Huang^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.ShanghaiTech University, China</p>
ESIT2022-0822-27	<p>Study on the Si Based Photodetector with the Mesa Structure Wang Bo^{1,2,3}, Yuping Zhang^{2,3}, Libin Tang^{1,2,3,4*}, Gongrong Deng², Kar Seng Teng^{5*}, Gang Wu^{2,3,4}, Liyuan Song^{2,3,4} 1.Yunnan University, China; 2.Kunming Institute of Physics, China; 3.Yunnan Key Laboratory of Advanced Photoelectronic Materials & Devices, China; 4.The Laboratory of Photonics Information Technology, Ministry of Industry and Information Technology, School of Optics and Photonics, Beijing Institute of Technology, Afghanistan; 5.Department of Electronic and Electrical Engineering, Swansea University, Bay Campus, Fabian Way, Swansea SA1 8EN, United Kingdom, United Kingdom</p>
ESIT2022-0822-28	<p>Broadband Photovoltaic Detector Based on SnTe/Si Heterostructure Liyuan Song^{1,2,3}, Libin Tang^{1,2,3*}, Qun Hao^{4*}, Chunli Yang², Kar Seng Teng^{5*}, Haipeng Wang², Junbin Li² 1.The Laboratory of Photonics Information Technology, Ministry of Industry and Information Technology, School of Optics and Photonics, Beijing Institute of Technology, China; 2.Kunming Institute of Physics, China; 3.Yunnan Key Laboratory of Advanced Photoelectronic Materials & Devices, China; 4.The Laboratory of Photonics Information Technology, Ministry of Industry and Information Technology, School of Optics and Photonics, Beijing Institute of Technology, China; 5.Department of Electronic and Electrical Engineering, Swansea University, Bay Campus, Fabian Way, Swansea SA1 8EN, United Kingdom, United Kingdom</p>
ESIT2022-0822-30	<p>Solution-Processed PbS Colloidal Quantum Dots / PCBM Based Photodetector for Multispectral Detection Lijing Yu^{1,2,3}, Pin Tian^{2,3}, Libin Tang^{2,3,4*}, Qun Hao^{4*}, Kar Seng Teng^{5*} 1.School of Optics and Photonics, Beijing Institute of Technology, China; 2.Kunming Institute of Physics, China; 3.Yunnan Key Laboratory of Advanced Photoelectronic Materials & Devices, China; 4.School of Optics and Photonics, Beijing Institute of Technology, China; 5.Department of Electronic and Electrical Engineering, Swansea University, Bay Campus, Fabian Way, Swansea SA1 8EN, United Kingdom, China</p>
ESIT2022-0822-4	<p>Two-dimensional modeling of the saturation characteristics of laser irradiation on HgCdTe MWIR photodiode Xiangyang Li¹, Maosheng Sang¹, Fan Yang¹, Guoqing Xu¹, Kaihui Chu¹, Hui Qiao¹, Xiaoyang Yang¹, Pengling Yang², Dahui Wang² 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Northwest Institute of Nuclear Technology, China</p>
ESIT2022-0822-5	<p>Research and Design of a High Resolution Successive Approximation Analog to Digital Converter based on Non-binary Redundant Structure Wengang Tao^{1,2}, Hongyi Wang², Yifan Lu², Jiaxiong Fang^{2*}, Songlei Huang^{2*} 1.ShanghaiTech University, China; 2.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0822-6	<p>Metal/dielectric microcavity quantum well infrared detector with whispering gallery mode Pengkang Jin^{1,2}, Honglou Zhen¹ 1.Shanghai Institute of Technical Physics, China; 2.Shanghai Normal University, China</p>
ESIT2022-0822-8	<p>Method to Check the Abnormal Detectors among Infrared Focal Plane based on its Noise Frequency Characteristic Xiaoxian Huang^{1*}, Feifei Xu¹, Yutian Fu¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Science, China</p>

ESIT2022-0822-9	Deep Low Temperature Medium-Wave Infrared Convex Blazed Grating Mingliang Yao ¹ 1.NanTong Academy Of Intelligent Sensing, China
ESIT2022-0823-2	Passivation of InSb photodetectors with atomic layer deposited Al₂O₃ Ailiang Cui ¹ 1.AVIC CAMA (Shanghai) Infrared Technology Co.Ltd, China
ESIT2022-0823-3	Detection of weak targets in complex infrared background based on Duffing oscillators Gaorui Liu ¹ 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China
ESIT2022-0823-5	Tracking Infrared UAVs Based onDense Optical Flow and Self-supervised Network Jie Li ¹ , Xiayang Huang ¹ , Pengxi Liu ¹ , Wennan Cui ^{1*} , Zhang Tao ^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China
ESIT2022-0829-3	Radiometric correction and Validation of GF-5/VIMI Infrared window Bands with Fengyun Satellites Hanlie Xu ¹ , Yanhua Zhao ² , Yan Li ² 1. National Satellite Meteorological Center 2.Beijing Institute of Space Mechanics&Electricity
ESIT2022-0829-4	Multi-sample thicknesses extraction by parallel detection of thin film reflectance Haotian Zhang ¹ 1.Fudan University, China
ESIT2022-0913-1	MWIR Photodetector with Electric and Optical Unite Manipulations Fang Wang, Fuxing Dai, Weida Hu Shanghai Institute of Technical Physics, Chinese Academy of Sciences Shanghai
ESIT2022-0913-2	A 3D adaptive sequential model based infrared small target detection method Jinyan Gao ¹ , Luyuan Wang ¹ , Weiwei Liu ¹ , Zhongshi Pan ² 1.Institute of Spacecraft System Engineering, China Academy of Space Technology, China 2.Institute of Remote Sensing Satellite, China Academy of Space Technology, China
ESIT2022-0913-3	Photoelectric properties of 3D silicon photodiodes under white light Tiantian Cheng ¹ , Niming Shen ¹ , Jiayi Qin ¹ , Yuxin Meng ¹ , Xin Wang ¹ , Yuanze Zu ¹ , Man Luo ^{1,2} , Chenhui Yu ^{1*} 1 Jiangsu Key Laboratory of ASIC Design, School of Information Science and Technology, Nantong University, China 2 Key Laboratory of Space Active Opto-Electronics Technology, and State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, People's Republic of China
Session 2: Terahertz and Millimeter Waves	
ESIT2022-0510-1	A 0.2-4.0 THz terahertz detector based on a dense array of antenna-coupled AlGaIn/GaN HEMTs arranged in bow-tie shape Yifan Zhu ¹ 1.Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO),Chinese Academy of Sciences, China
ESIT2022-0629-1	An AlGaIn/GaN nonlinear transmission line terahertz multiplier Lanyong Xiang ¹ 1.Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), China
ESIT2022-0804-2	High-frequency rectifiers based on type-II Dirac fermions Libo Zhang ^{1,2} , Huaizhong Xing ^{3*} , Lin Wang ^{1*} , Xiaoshuang Chen ^{1,2*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Hangzhou Institute for Advanced Study, University of Chinese Academy of Science, China; 3.Donghua University, China

ESIT2022-0804-3	<p>The culmination of multiple principles: Hybrid Dirac semimetal-based photodetectors Han Li^{1,2*}, Wang Lin¹, Xing Huaizhong³, Chen Xiaoshuang¹ 1.State Key Laboratory for Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China; 3.Donghua University, China</p>
ESIT2022-0804-5	<p>Terahertz device modeling and parameter extraction of heterojunction bipolar transistors Ao Zhang¹, Jianjun Gao^{2*} 1.Nantong University, China; 2.East China Normal University, China</p>
ESIT2022-0804-8	<p>Function Analysis of Loop Inductanchor in photo-conductive terahertz source Ting Shang¹, Wei Shi^{1*}, Zhi Jin¹, Tiantian Wang¹ 1.Xi'an University of Technology, China</p>
ESIT2022-0805-4	<p>Characterization of α-lactose solution using high-power THz-ATR spectroscopy Haiqing Wang¹, Wei Shi^{1*}, Chunhui Li¹ 1.Key Laboratory of Ultrafast Photoelectric Technology and Terahertz Science in Shaanxi, Xi'an University of Technology, Xi'an 710048, China, China</p>
ESIT2022-0806-1	<p>Study of terahertz ellipsoidal lens assembly method based on surface fitting Liang Liu^{1*}, Lanbo Liu¹, Yuan Li¹, Shiqi Zhu¹, Yanhong Chai¹, Chao Lu¹ 1.Shanghai Aerospace Electronic Technology Institute, China</p>
ESIT2022-0806-2	<p>Extraction of optical parameters of Escherichia coli using terahertz time-domain spectroscopy Yusong Zhang¹, Lei Hou¹, Wei Shi^{1*} 1.Xi'an University of Technology, China</p>
ESIT2022-0807-1	<p>A review of the Terahertz antenna Yicong Chen¹, Jianjun Gao¹, Guohua Zhai^{1*} 1.East China Normal University, China</p>
ESIT2022-0807-3	<p>The analysis of high order dispersion effects on a compact accelerator-based THz generation Yin Kang^{1,2} 1.Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China</p>
ESIT2022-0808-1	<p>Buried heterostructure terahertz quantum cascade lasers for epitaxial-side-down mounting with high continuous-wave power Yu Ma¹, Wei-Jiang Li¹, Yun-Fei Xu¹, Jun-Qi Liu^{1*}, Jin-Chuan Zhang¹, Shen-Qiang Zhai¹, Li-Jun Wang¹, Shu-Man Liu¹, Feng-Qi Liu¹ 1.Institute of Semiconductors, Chinese Academy of Sciences, China</p>
ESIT2022-0808-5	<p>Identification of Breast Cancer Tissue by Terahertz Imaging Technique Qi Liao¹ 1.University of Electronic Science and Technology of China, China</p>
ESIT2022-0809-1	<p>Ultrafast Terahertz Emission Amplification and Valley Current Manipulation in Monolayer WSe₂/Si Heterostructure Zeyu Zhang^{1*} 1.Hangzhou Insititute of Advanced Study, University of Chinese Acadamy of Science, China</p>
ESIT2022-0811-2	<p>Measuring system and method of millimeter wave active pulse radar pattern Yufeng Ma^{1*}, Wei Li² 1.CAST Xi'an, China; 2.Shaanxi Aerospace Technology Application Research Institute Co., Ltd., China</p>

ESIT2022-0811-3	<p>Observation of human sperm acrosome based on near-field terahertz imaging technique Chengyao Peng¹, Shun Bai², Xiaohua Jiang^{2*}, Wenbing Zhang¹, Min Hu^{1,3}, Fukun Liu^{1,4}</p> <p>1.Institute of Energy, Hefei Comprehensive National Science Center, Anhui, China; 2.Reproductive and Genetic Hospital, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei, China; 3.Terahertz Research Center, School of Electronic Science and Engineering, University of Electronic Science and Technology of China, China; 4.Institute of Plasma Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0811-4	<p>Ultrafast Photodetector Based on 2H-NbSe₂/Graphene Van der Waals Heterostructure Mengjie Jiang^{1*}, Lin Wang², Huaizhong Xing²</p> <p>1.DongHua University, China; 2.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China;</p>
ESIT2022-0811-6	<p>Application and Outlook of Terahertz in Various Areas Xianglin Niu^{1*}, Mingjian Gu², Yiqi Zhu²</p> <p>1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China; 2.Zhongke Technical Physics Suzhou Research Institute, China</p>
ESIT2022-0811-7	<p>Asymmetry-coupled Dirac electronic state for sensitive detection and Imaging Changlong Liu^{1*}</p> <p>1.Hangzhou Institute for Advanced Study, China</p>
ESIT2022-0812-11	<p>Terahertz detector module based on antenna-coupled AlGaIn/GaN HEMTs Yifan Zhu¹</p> <p>1.Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences, China</p>
ESIT2022-0812-12	<p>Ultra-sensitive terahertz detection readout and characterization technology Tianyuan Chi¹, Lili Shi¹, Jingbo Wu¹, Xuecou Tu¹, Guozhu Sun¹, Runfeng Su¹, Jian Chen^{1*}, Peiheng Wu¹</p> <p>1.Nanjing University, China</p>
ESIT2022-0812-4	<p>Ultrasensitive Self-Driven terahertz photodetectors based on ternary topological semimetal and van der Waals heterojunction Kaixuan Zhang^{1*}, Lin Wang², Huaizhong Xing¹</p> <p>1.Donghua University, China; 2.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0813-2	<p>Directional response characteristics of a silicon lens-coupled HEMT terahertz detector Yifan Zhu¹</p> <p>1.Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences, China</p>
ESIT2022-0814-13	<p>Theoretical Investigation on Multi-Harmonic Mode Interaction in the One THz Gyrotron Fanhong Li¹</p> <p>1.Peking University, China</p>
ESIT2022-0814-19	<p>3D Printing Terahertz Absorber Jun Pan¹, Peidi Yang¹, Yongshan Liu², Yong Xu², Sai Chen¹, Xiaojun Wu^{1*}</p> <p>1.School of Electronic and Information Engineering, Beihang University, China; 2.MIIT Key Laboratory of Spintronics, School of Integrated Circuit Science and Engineering, Beihang University, China</p>
ESIT2022-0814-2	<p>A terahertz near-field scanning probe microscope using a quartz tuning fork based probe Xinxing Li¹, Jiandong Sun¹, Lin Jin¹, Yang Shangguan¹, Hua Qin¹</p> <p>1.Suzhou Institute of nano-tech and nano-bionics, Chinese academy of sciences, China</p>
ESIT2022-0815-16	<p>Effect of roughness at the edge of foam defects on terahertz images Hui Wang¹, Yan Wang¹, Renfeng Sun¹, Xuecou Tu¹, Xiaoqing Jia¹, Lin Kang¹, Huabing Wang¹, Biaobing Jin¹, Jian Chen^{1*}, Peiheng Wu¹</p> <p>1.Nanjing University, China</p>

ESIT2022-0815-3	<p>The preliminary study on compound Banlangen granules based on terahertz time-domain spectroscopy Wei Xu¹, Jie Shu^{1*}, Hongzhu Xi¹ 1.Anhui Huadong Polytechnic Institute, China</p>
ESIT2022-0815-6	<p>Study on the Effects of Aqueous Sample Thickness on Terahertz Time-Domain Attenuated Total Reflection Spectra Fu Ying^{1,2,3}, Zhang Ming Kun^{1,2,3}, Wang Hua Bin^{1,2,3*} 1.Research Center of Super-Resolution Optics, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences, China; 2.Chongqing School, University of Chinese Academy of Sciences, China; 3.Chongqing Engineering Research Center of High-Resolution and Three-Dimensional Dynamic Imaging Technology, Chinese Academy of Sciences, China</p>
ESIT2022-0816-5	<p>Free-electron-driven Vortex Beam Generator based on Helical Grating Ziwen Zhang¹, Chaohai Du¹, Fanhong Li¹ 1.Peking University, China</p>
ESIT2022-0817-4	<p>Room temperature terahertz photoresponse based on type II Dirac fermions Zhen Hu¹, Lin Wang¹, Xiaoshuang Chen¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0819-5	<p>Mode selection and power extraction of terahertz semiconductor lasers based on an active distributed Bragg reflector and grating coupler Kai Wang^{1*}, Gangyi Xu¹, Hongzhou Bai², Chenren Yu¹ 1.Shanghai Institute of Technical Physics, China; 2.Key Laboratory of Infrared Imaging Materials and Detectors, Shanghai Institute of Technical Physics, China</p>
ESIT2022-0819-7	<p>A method to achieve beam steering of Terahertz Quantum Cascade lasers Guowen Liu¹, Gangyi Xu^{2*} 1.Hangzhou Institute for advanced study, China; 2.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0819-9	<p>A Maintained Change of THz Signal in the FM/NM Heterostructure by High Current Density Da Tian¹, Caihong Zhang^{1*}, Hongsong Qiu¹, Xingcheng Xiang¹, Wei Zhang¹, Bowen Tan¹, Jingbo Wu¹, Kebin Fan¹, Biaobing Jin¹, Jian Chen¹, Peiheng Wu¹ 1.Nanjing University, China</p>
ESIT2022-0820-13	<p>High-performance terahertz quantum cascade lasers based on non-uniform dipole antenna arrays Hongzhou Bai¹, Kai Wang^{1*}, Gangyi Xu^{1*} 1.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0820-16	<p>Pixelated Metamaterial Terahertz Biosensor Xingcheng Xiang¹, Chun Li², Bowen Tan¹, Longcheng Feng¹, Caihong Zhang¹, Biaobing Jin¹ 1.Nanjing University, China; 2.Nanjing Forest University, China</p>
ESIT2022-0820-6	<p>Study on the Cooperative Slowdown Effect of Cations and Anions on the Water Rotation from the Perspective of H-Bond Exchange Huabin Wang^{1*}, Mingkun Zhang¹, Yan Jiang¹ 1.Chongqing Institute of Green and Intelligent Technology, CAS, China</p>
ESIT2022-0821-11	<p>Multifunctional terahertz modulator based on VO₂/PVP flexible composite film Weien Lai^{1*}, Hanguang Gou¹, Gen Liu¹, Jianfei Zhu¹, Feng Ji¹ 1.Hefei University of Technology, China</p>
ESIT2022-0821-13	<p>Focusing Enhancement of Terahertz Surface Plasmon Polaritons Bowen Tan¹, Xingcheng Xiang¹, Longcheng Feng¹, Caihong Zhang^{1*}, Biaobing Jin¹ 1.Research Institute of Superconductor Electronics (RISE), School of Electronic Science and Engineering, Nanjing University, China</p>
ESIT2022-0821-16	<p>The frequency characteristic of AlGaIn/GaN Schottky diode Lanyong Xiang¹ 1.Suzhou Institute of Nano-Tech and Nano-Bionics(SINANO), China</p>

ESIT2022-0822-16	<p>Dynamically Tunable Resonant Strength in An Electromagnetically Induced Transparency Metasurface Based on Vanadium Dioxide</p> <p>Linyu Yang¹, Yide Sun¹, Wei Wang^{1,2*}, Rongji Yin¹</p> <p>1.School of Physics and Electronic Information, Yunnan Normal University,,Kunming, China; 2.Yunnan Key Laboratory of Opto-electronic Information Technology,Kunming, China</p>
ESIT2022-0822-18	<p>Retrieving Surface Rainfall from the Precipitating Clouds based on Geostationary Advanced Himawari Imager</p> <p>Xiong Hu¹, WeiHua Ai^{1*}, Wei Yan¹</p> <p>1.National University of Defense Technology, China</p>
ESIT2022-0822-21	<p>Comparative Study on Detection Performance of InGaAs EIW Devices with Different Microstructure Antennas</p> <p>Qiyuan Zhang¹, Wangchen Mao¹, Tuntan Wu¹, Jiabin Duan¹, Nianguan Yao¹, Wei Zhou^{1*}, Zhiming Huang^{1*}</p> <p>1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0822-22	<p>Design of terahertz focusing structure based on high-resistivity silicon</p> <p>Wangchen Mao¹, Qiyuan Zhang¹, Tuntan Wu¹, Yongzhen Li¹, Qiangguo Zhou¹, Wei Zhou^{1*}, Zhiming Huang^{1*}</p> <p>1.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0822-26	<p>Enhanced responsivity of room temperature InSb terahertz detector via etched grating and Log-periodic antenna</p> <p>Shijie Chen^{1,2}, Hang Chen^{1,2}, Tuntan Wu², Wei Zhou², Nianguan Yao², Jiabin Duan², Zhiming Huang^{2*}</p> <p>1.Hangzhou Institute for Advanced Study, UCAS, China; 2.State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0823-1	<p>Experimental Study on the Reflective Terahertz Time-domain Spectroscopy for Security Inspection of Typical Liquids in Railway Transportation</p> <p>Limin Xu^{1*}</p> <p>1.Guangdong University of Technology, China</p>
ESIT2022-0829-2	<p>A 4-element 24 GHz end-fire dipole antenna base on transmission line theory</p> <p>Yanfei Mao¹</p> <p>1.Zhejiang Normal University, China</p>
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ESIT2022-0802-1	<p>A Space-Time Downscaling Approach of Fengyun-4A Satellite based on Deep Learning</p> <p>Chunlei Yang¹, Meng Xie¹, Mingjian Gu²</p> <p>1.Suzhou Research Institute of science and Technology Physics, China; 2.Key Laboratory of Infrared System Detection and Imaging Technology, Chinese Academy of Sciences, China.</p>
ESIT2022-0805-5	<p>Exploring the temperature characteristics and regolith loss tangent of the Von K&acute;r&acute;n crater</p> <p>Shurui Chen¹</p> <p>1.Tongji University, China</p>
ESIT2022-0806-5	<p>Study on immersion grating for methane detection spectrometer</p> <p>Nenghua Zhou¹, Quan Liu^{1*}, Bin Huang¹</p> <p>1. Soochow University</p>
ESIT2022-0806-6	<p>Parameter optimization and configuration of the CUBE algorithm for shallow water survey</p> <p>Yong Zhou^{1*}</p> <p>1. Piesat Information Technology Co.,Ltd.</p>

ESIT2022-0806-9	<p>Study on immersion grating for weak carbon dioxide band detection spectrometer Bin Huang^{1,2,3}, Quan Liu^{1,2,3*}, Nenghua Zhou^{1,2}, Zongqing Wu^{1,2} 1.School of Optoelectronic Science and Engineering & Collaborative Innovation Center of Suzhou Nano Science and Technology, Soochow University, China; 2.Key Lab of Advanced Optical Manufacturing Technologies of Jiangsu Province & Key Lab of Modern Optical Technologies of Education Ministry of China, Soochow University, China; 3.Engineering Research Center of Digital Imaging and Display of Education Ministry of China, Soochow University, China</p>
ESIT2022-0807-2	<p>Performance Analysis and Retrieval Improvement of Multi-channel Ground-based Microwave Radiometer Meng Liu¹, Yanan Liu^{1*}, Jiong Shu¹, Allen Huang-Lung Huang² 1.East China Normal University, China; 2.University of Wisconsin-Madison, United States</p>
ESIT2022-0810-1	<p>Research on Noise Suppression of Inter-satellite Laser Pointing Jitter Cui Zhao^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences</p>
ESIT2022-0810-6	<p>Influence of the four-quadrant fixed mirror on the temperature and wind velocity inversion for the near-infrared static Mars wind imaging interferometer Chunmin Zhang^{1*}, Yujiao Zhang¹, Yifan He¹ 1.Xi'an Jiaotong University</p>
ESIT2022-0812-3	<p>Monitoring of Thermal Drainage of Power Plant Based on FY-3D MERSI-2 thermal Infrared Remote Sensing Data Cailan Gong^{1*}, Xiaoying Wang^{1*}, Yong Hu¹, Zhe Yang¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences</p>
ESIT2022-0812-5	<p>Study on distribution characteristics of underground space alteration information of drill core using hyperspectral technology Liang Shuneng¹, Xiao Chenchao^{1*}, Mou Xinglin¹, Yan Baikun² 1.Land Satellite Remote Sensing Application Center, Ministry of Natural Resources, China; 2.China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China</p>
ESIT2022-0813-1	<p>Reliability-Weighted Fusion of Multiview Photogrammetric Point Clouds for Lunar Topographic Mapping Siyuan Xu^{1*}, Chen Chen¹, Yusheng Xu¹, Zhen Ye¹, Huan Xie¹, Xiaohua Tong¹ 1.Tongji University</p>
ESIT2022-0814-10	<p>Optimum Steering Mirror Design based on the Flexible Hinge Support for Jittering Noise Suppression in the Spaceborne Gravitational Wave Detection Chengwen Xing¹ 1.Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China</p>
ESIT2022-0814-14	<p>Half-quadratic based robust sparse hyperspectral unmixing framework Risheng Huang¹ 1.Shaoxing University, China</p>
ESIT2022-0814-15	<p>Research on bathymetric Inversion capability of different multispectral remote sensing images Li Jiang¹ 1.China University of Petroleum</p>
ESIT2022-0814-20	<p>Laser Reflective Tomography Imaging Projection Registration Method based on Target Contour Auto-Registration Xinyuan Zhang¹, Youlong Chen¹, Shiyang Shen¹, Shilong Xu¹, Liang Shi¹, Xiao Dong¹, Yihua Hu^{1*} 1.National University of Defense Technology, China</p>
ESIT2022-0814-4	<p>Research on zero-difference interference angle measurement technology applied to optical bonding Cuiting Yang¹ 1.Hangzhou Institute for Advanced Study, University of Chinese Academy of Sciences, China</p>

ESIT2022-0815-17	<p>Self-assembled CsPbBr₃ quantum nanosheet for optical reconnaissance satellite active jamming</p> <p>Youlong Chen¹, Xinyuan Zhang¹, Yihua Hu^{1*}, Yushuang Zhang¹, Shengjie Ma¹</p> <p>1.National University of Defense Technology, China</p>
ESIT2022-0815-5	<p>Theoretical calculation of Stokes vector of laser backscattering from a simplified satellite model at long distance</p> <p>Shen Shiyang¹, Hu Yihua^{1*}, Zhang Xinyuan¹, Xu Shilong¹, Fang Jiajie¹</p> <p>1.National University of Defense Technology, China</p>
ESIT2022-0815-8	<p>An Automatic Classification Method for Mapping Martian Landforms</p> <p>Qin Lu¹, Sicong Liu^{1*}, Xiaohua Tong¹, Shijie Liu¹, Huan Xie¹, Yanmin Jin¹</p> <p>1.College of Surveying and Geo-informatics, Tongji University, China</p>
ESIT2022-0816-1	<p>Global Localization of Zhurong Rover based on SFM and Image Matching Techniques</p> <p>Zilong Cao¹</p> <p>1.Tongji University, China</p>
ESIT2022-0816-7	<p>MMSHIP: Medium resolution multispectral remote sensing image ship dataset</p> <p>Li Chen¹</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0817-2	<p>A Practical Target Radiance Estimating Method on Near-Surface Long-range</p> <p>Feifei Xu^{1*}, Xiaoxian Huang¹</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China;</p>
ESIT2022-0818-2	<p>An on-orbit refresh and reconstruction method for infrared remote sensing camera with heterogeneous dual FPGA</p> <p>Lufang Li^{1,2,3}, Changqing Lin^{1,2*}, Shengli Sun^{1,2}, Shuangxi Zhou^{3,1,4}, Qichao Yu^{1,2}, Huage Hei^{1,2,3}</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Key Laboratory of Intelligent Infrared Perception, China; 3.University of Chinese Academy of Sciences, China; 4.Key Laboratory of Intelligent Infrared Perception, China</p>
ESIT2022-0819-1	<p>Visualization of radiation intensity sequences for spatial infrared moving target recognition</p> <p>ZhangShenghao^{1,2,3}, RaoPeng^{1,2*}, ZhangHao^{1,2,3}, ChenXin^{1,2}</p> <p>1.Key Laboratory of Intelligent Infrared Perception, Chinese Academy of Sciences, China; 2.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 3.University of Chinese Academy of Sciences, China</p>
ESIT2022-0820-14	<p>Research on Cross - pixel Broadening ' Split ' Degradation Model and Target Detection of Moving Point Target in Infrared Image</p> <p>Qingye He^{1,2}, Changqing Lin^{1*}</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China</p>
ESIT2022-0820-2	<p>Research on novel noise model of information acquisition link in high integrated infrared camera</p> <p>Changqing Lin^{1,2}, Shuangxi Zhou^{1,2,3}, Lufang Li^{1,2,3}, Huage Hei^{1,2,3}, Shengli Sun^{1,2*}</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Key Laboratory of Intelligent Infrared Perception, Chinese Academy of Sciences, China; 3.University of Chinese Academy of Sciences, China</p>
ESIT2022-0820-3	<p>Research on high integration and high speed information acquisition architecture of infrared camera</p> <p>Shuangxi Zhou^{1,2,3}, Lufang Li^{1,2,3}, Shengli Sun^{1,3}, Huage Hei^{1,2}, Qichao Yu¹, Changqing Lin^{1,3*}</p> <p>1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.University of Chinese Academy of Sciences, China; 3.Key Laboratory of Intelligent Infrared Perception, Chinese Academy of Sciences, China</p>
ESIT2022-0820-5	<p>Co-phasing detection and adjustment for segmented mirrors system</p> <p>Rong jie Qin^{1*}</p> <p>1.Shanghai Institute of technical physics, China</p>

ESIT2022-0821-2	<p>A multi-source reflectance data fusion algorithm for multi-site calibration Chunyan Zhao^{1*} 1.Shanghai Institute of Technical Physics, China</p>
ESIT2022-0821-20	<p>On-board parameter optimization method for space-based air vehicle infrared detection Yejin Li^{1,2,3}, Peng Rao^{2,3}, Zhengda Li^{2,3}, Jianliang Ai^{1*} 1.Department of Aeronautics and Astronautics, Fudan University, China; 2.Key Laboratory of Intelligent Infrared Perception, Chinese Academy of Sciences, China; 3.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0821-22	<p>Metasurface-based spectrally selective thermal microsensor Qianqian Xu¹ 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</p>
ESIT2022-0821-23	<p>Experimental system of life ecological science on Chinese Space Station Fangwu Liu¹, weibo Zheng¹, yongchun Yuan¹, qing Tian¹, dazhao Xu¹, Tao Zhang^{1*} 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</p>
ESIT2022-0821-3	<p>Spatial-Spectral Graph Regularized Sparse Nonnegative Matrix Factorization Hyperspectral Unmixing Lin Lei¹, Hao Zhang¹, Shaoquan Zhang¹, Ningyuan Zhang¹, Chengzhi Deng^{1*}, Fan Li¹, Shengqian Wang¹ 1.Nanchang Institute of Technology, China</p>
ESIT2022-0821-4	<p>Segmented mirrors co-phasing using adaptive optics pyramid wavefront sensing approach Linshu Huang¹, Yinnian Liu^{1*} 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</p>
ESIT2022-0822-12	<p>A characterization method of aerial target and complex background based on infrared differential analytic factor GuoLan^{1,2,3}, RaoPeng^{1,2*}, LiYejin^{1,2} 1.Key Laboratory of Intelligent Infrared Perception, Chinese Academy of Sciences, China; 2.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 3.University of Chinese Academy of Sciences, China</p>
ESIT2022-0822-13	<p>Thermal design and verification of Geostationary High-speed Imager (GHI) on FY-4B satellite Jing Qian¹, Xia Shen¹, Yuezhong Zhao¹, Jianli Zheng¹, Weicheng Wang¹, Changpei Han¹, Qi Cao¹, Yuxiang Zhou¹, Gongqi Qi¹, Lei Ding^{1*} 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</p>
ESIT2022-0822-14	<p>FTIR trend term removal method based on GA and MSAC algorithms Bo Yan^{1,2}, JunYong Fang³, Hao Chen^{4*}, ShuaiHui Li^{4*} 1.State Key Laboratory of High Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, Beijing, China; 2.School of Engineering Science, University of Chinese Academy of Sciences, China; 3.Aerospace Information Research Institute, Chinese Academy of Sciences, China; 4.State Key Laboratory of High Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, China</p>
ESIT2022-0822-23	<p>A design method of flexible thermal strap for cryogenic optics based on high thermal conductivity graphene film Jing Qian¹, Xiaoming Lu¹, Peng Rao^{1*} 1.Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China</p>
ESIT2022-0822-3	<p>Infrared Small Target Detection Based on Feature Pyramid Structure and Multilayer Feature Fusion Network Dandan Li¹, Dexin Sun^{1*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
ESIT2022-0823-4	<p>Nonuniformity Correction In Infrared Image for Wide Field With Camera Radiation Constraint Feifei Xu^{1*}, Xiaoxian Huang¹, Yin Zhou², Yutian Fu¹ 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Beijing Institute of Remote Sensing Information, China</p>

<p>ESIT2022-0823-6</p>	<p>FY-3E/HIRAS-II Radiation Calibration Accuracy Evaluation Zhang Chunming^{1,2,3}, Yang Tianhang^{1,2}, Xie Mengzhen^{1,2,3}, Qi Chengli⁴, Gu Mingjian^{1,2*} 1.Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2.Key Laboratory of Infrared System Detection and Imaging Technologies, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 3.University of Chinese Academy of Sciences, China; 4.National Satellite Meteorological Center, China Meteorological Administration, China</p>
<p>ESIT2022-0908-1</p>	<p>Research on a deep learning modeling method of ionospheric total electron content MA Yu^{1,2*}, DAI Lian-Dong^{1,2*}, HAO Xiao-Jing^{1,2}, LI Na^{1,2}, DING Zong-Hua^{1,2} 1. National Key Laboratory of Electromagnetic Environment, China Research Institute of Radiowave Propagation, China; 2. Kunming Electro-Magnetic Environment Observation and Research Station, China</p>
<p>ESIT2022-0908-2</p>	<p>Error Analysis of Atmospheric Wind Velocity Observed by Kunming All-sky Meteor Radar HAO XiaoJing^{1,2}, Zeng Jie³, DING ZongHua^{1,2}, LI Na^{1,2}, YI Wen³ 1 National Key Laboratory of Electromagnetic Environment, China Research Institute of Radiowave Propagation, China 2 Kunming Electro-Magnetic Environment Observation and Research Station, China 3 CAS Key Laboratory of Geospace Environment, Department of Geophysics and Planetary Sciences, University of Science and Technology of China, China</p>
<p>ESIT2022-0908-3</p>	<p>Radiometric Nonlinearity and the Correction Strategies for Infrared Hyperspectral Benchmark Sounder Lu Lee¹, Chengli Qi^{1*}, Lei Ding², Xiuqing Hu¹, Mingjian Gu², Tianhang Yang² 1 Innovation Center for FengYun Meteorological Satellite, Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites, National Satellite Meteorological Center, China 2 Key Laboratory of Infrared System Detection and Imaging Technologies, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
<p>ESIT2022-0908-4</p>	<p>The Instrument Responsivity Effect to the Calibrated Radiances of Infrared Hyperspectral Benchmark Sounder Chengli Qi¹, Lu Lee^{1*}, Lei Ding², Xiuqing Hu¹, Mingjian Gu² 1 Innovation Center for FengYun Meteorological Satellite, Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites, National Satellite Meteorological Center, China Meteorological Administration, China 2 Key Laboratory of Infrared System Detection and Imaging Technologies, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China</p>
<p>ESIT2022-0909-1</p>	<p>High precision integrated temperature control design of space borne blackbody Huage Hei^{1,2,3}, Lufang Li^{1,2,3}, Shuangxi Zhou^{1,2,3}, Fansheng Chen^{1,2}, Changqing Lin^{1,2} 1. Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China; 2. Key Laboratory of Intelligent Infrared Sensing, Chinese Academy of Sciences, China; 3. University of Chinese Academy of Sciences, China</p>
<p>ESIT2022-0817-1</p>	<p>Radiance consistency and deviation characterization in co-observed regions of the new generation geostationary earth orbit meteorological satellites Yatao Yue, China University of Petroleum East China - Qingdao Campus</p>