

目 次

□材料与器件

- 基于等离子体结构的太赫兹石墨烯电光调制器的机理分析 李佳斌 王晓华 王文杰(143)
基于W-SiO₂双金属陶瓷结构的高效率太阳能选择性吸收薄膜的优化和制备 徐磊 胡二涛 涂华恬 任文帅 贺蓉等(150)
高温热退火对多层P-on-N结构HgCdTe的界面影响 沈川 陈路 卜顺栋 刘仰融 何力(156)
液相外延生长过程中外延层厚度的卷积计算方法 魏彦锋 孙权志(161)
异质结构—NaGdF₄:Yb,Er纳米棒负载在金属有机框架上以调节上转换光致发光 刘毅 焦吉庆 吕柏泽 王久兴(166)
高倍增低暗电流AlInAsSb四元数字合金雪崩光电二极管 郑大农 苏向斌 徐应强 牛智川(172)

□毫米波与太赫兹技术

- 基于硅微机械加工波导W波段功率合成放大器 成海峰 朱翔 候芳 胡三明 郭健等(178)
用于太赫兹成像的CMOS肖特基二极管三维结构研究 崔大圣 杨佳铭 姚宏璇 吕昕(184)
140 GHz/50kW回旋管的研制与测试 马国武 胡林林 卓婷婷 孙迪敏 黄麒力等(189)
直接基于目标距离环杂波特性的样本选择 秦琴 屠子美 李明(198)

□红外光谱与光谱分析

- 基于集成黑体法1000~1500°C石墨材料高温红外光谱发射率测量 宋旭尧 董伟 潘奕捷 原遵东 卢小丰(204)

□遥感技术与应用

- 红外甚高光谱分辨率探测仪高精度在轨光谱定标 杜丽丽 刘李 葛曙乐 李志伟 周川杰等(214)
星载光子计数激光测高植被冠层高度误差分析 王玥 王虹 李松 周辉(223)
基于全链路仿真的静止轨道毫米波大气探测性能 陈柯 郑照明 蔡保国 安大伟 谢振超等(230)

□红外及光电技术与应用

- 基于激光调频连续波正反向调谐色散对消方法 许新科 龙康 徐靖翔 赵军 王道档等(243)
偏振三维成像技术的原理和研究进展(封面文章) 李轩 刘飞 邵晓鹏(248)
太赫兹交错栅慢波结构高频特性理论研究 张金睿 张长青 冯进军(263)

□图像处理及软件仿真

- 基于L1范数优化模型的遥感图像条纹去除方法 李凯 李文力 韩昌佩(272)



本刊支持开放获取(Open Access)

彩色电子版内容获取

请扫描左侧二维码关注学报公众号

CONTENTS

Mechanism analysis of terahertz graphene electro-optic modulator with plasma structure	LI Jia-Bin, WANG Xiao-Hua, WANG Wen-Jie (143)
Optimization and preparation of the high-efficiency solar selective absorber based on double W-SiO ₂ cermet layers	XU Lei, HU Er-Tao, TU Hua-Tian, REN Wen-Shuai, HE Rong, WANG Song-You, ZHAO Hai-Bin, ZHANG Rong-Jun, ZHENG Yu-Xiang, CHEN Liang-Yao (150)
Effect of thermal annealing on the interface changes of multi-layer HgCdTe P-on-N materials grown by MBE	SHEN Chuan, CHEN Lu, BU Shun-Dong, LIU Yang-Rong, HE Li (156)
A convolution approach for the epilayer thickness in liquid phase epitaxial growth	WEI Yan-Feng, SUN Quan-Zhi (161)
The heterostructure NaGdF ₄ : Yb, Er nanorods loaded on metal-organic frameworks for tuning upconversion photoluminescence	LIU Yi, JIAO Ji-Qing, LYU Bai-Ze, WANG Jiu-Xing (166)
High gain and low dark current AlInAsSb avalanche photodiodes grown by quaternary digital alloys	ZHENG Da-Nong, SU Xiang-Bin, XU Ying-Qiang, NIU Zhi-Chuan (172)
W-band power combining amplifier based on silicon micromachined waveguide	CHENG Hai-Feng, ZHU Xiang, HOU Fang, HU San-Ming, GUO Jian, SHI Gui-Xiong (178)
Three-dimensional structure analysis of Schottky barrier diode in CMOS technology for terahertz imaging	CUI Da-Sheng, YANG Jia-Ming, YAO Hong-Xuan, LYU Xin (184)
Development and test of 140 GHz / 50 kW Gyrotron	MA Guo-Wu, HU Lin-Lin, ZHUO Ting-Ting, SUN Di-Min, HUANG Qi-Li, ZENG Zao-Jin, JIANG Yi (189)
Sample selection based on direct estimation of cell under test clutter characteristics	QIN Qin, TU Zi-Mei, LI Ming (198)
The infrared spectral emissivity measurement of a graphite material in a high temperature range of 1000~1500°C using integrated blackbody principle	SONG Xu-Yao, DONG Wei, PAN Yi-Jie, YUAN Zun-Dong, LU Xiao-Feng (204)
High precision on-orbit spectral calibration of atmospheric infrared ultra-spectral sounder	DU Li-Li, LIU Li, GE Shu-Le, LI Zhi-Wei, ZHOU Chuang-Jie, DING Guo-Shen (214)
Error analysis of estimated canopy height based on photon counting laser altimetry	WANG Yue, WANG Hong, LI Song, ZHOU Hui (223)
Performance of geostationary orbit millimeter-wave atmospheric soundings based on end to end simulations	CHEN Ke, ZHENG Zhao-Ming, CAI Bao-Guo, AN Da-Wei, XIE Zhen-Chao, YI Ze-Yu (230)
The method of dispersion cancellation based on the forward and reverse tuning of a laser frequency-modulated continuous wave system	XU Xin-Ke, LONG Kang, XU Jing-Xiang, ZHAO Jun, WANG Dao-Dang, LIU Lu, LIU Wei, GUO Tian-Tai, KONG Ming (243)
Research progress on polarization 3D imaging technology (Cover Article)	LI Xuan, LIU Fei, SHAO Xiao-Peng (248)
Theoretical study on high frequency characteristics of terahertz staggered grating slow-wave structure	ZHANG Jin-Rui, ZHANG Chang-Qing, FENG Jin-Jun (263)
The method based on L1 norm optimization model for stripe noise removal of remote sensing image	LI Kai, LI Wen-Li, HAN Chang-Pei (272)