

■ RESEARCH HIGHLIGHTS

- 110201 **Mechanical pressing method for making high-quality perovskite single crystals**
[4 pages] Chenglin Wang, Jie Sun, Jiangzhao Chen, Cong Chen, and Liming Ding
- 110202 **When insulating polymers meet conjugated polymers: the non-covalent bonding does matter**
[3 pages] Zhonggao Bu, Chengyi Xiao, Jie Sun, Weiwei Li, and Liming Ding

■ REVIEWS

- 111301 **Waveguide-integrated optical modulators with two-dimensional materials**
[18 pages] Haitao Chen, Hongyuan Cao, Zejie Yu, Weike Zhao, and Daoxin Dai
- 111701 **Photocatalytic removal of heavy metal ions and antibiotics in agricultural wastewater: A review**
[16 pages] Jiaxin Song, Malik Ashtar, Ying Yang, Yuan Liu, Mingming Chen, and Dawei Cao
- 113101 **A review of the etched terminal structure of a 4H-SiC PiN diode**
[10 pages] Hang Zhou, Jingrong Yan, Jialin Li, Huan Ge, Tao Zhu, Bingke Zhang, Shucheng Chang, Junmin Sun, Xue Bai, Xiaoguang Wei, and Fei Yang

■ ARTICLES

- 112001 **Multilayered PdTe₂/thin Si heterostructures as self-powered flexible photodetectors with heart rate monitoring ability**
[10 pages] Chengyun Dong, Xiang An, Zhicheng Wu, Zhiguo Zhu, Chao Xie, Jian-An Huang, and Linbao Luo
- 112301 **Modulation bandwidth enhancement in monolithic integrated two-section DFB lasers based on the detuned loading effect**
[7 pages] Yunshan Zhang, Yifan Xu, Shijian Guan, Jilin Zheng, Hongming Gu, Lianyan Li, Rulei Xiao, Tao Fang, Hui Zou, and Xiangfei Chen
- 112701 **Metallic few-layered 1T-VS₂ nanosheets for enhanced sodium storage**
[4 pages] Liang Wu, Peng Wang, Xingwu Zhai, Hang Wang, Wenqi Zhan, Xinfeng Tang, Qianwen Li, and Min Zhou
- 112801 **Study of enhancement-mode GaN pFET with H plasma treated gate recess**
[6 pages] Xiaotian Gao, Guohao Yu, Jiaan Zhou, Zheming Wang, Yu Li, Jijun Zhang, Xiaoyan Liang, Zhongming Zeng, and Baoshun Zhang
- 114101 **Development of a simple two-step lithography fabrication process for resonant tunneling diode using air-bridge technology**
[4 pages] Swagata Samanta, Jue Wang, and Edward Wasige
- 114102 **Study of the influence of virtual guard ring width on the performance of SPAD detectors in 180 nm standard CMOS technology**
[6 pages] Danlu Liu, Ming Li, Tang Xu, Jie Dong, Yuming Fang, and Yue Xu

-
- 114103 **Performance optimization of tri-gate junctionless FinFET using channel stack engineering for digital and analog/RF design**
[12 pages] Devenderpal Singh, Shalini Chaudhary, Basudha Dewan, and Menka Yadav
- 114104 **Incomplete charge transfer in CMOS image sensor caused by Si/SiO₂ interface states in the TG channel**
[8 pages] Xi Lu, Changju Liu, Pinyuan Zhao, Yu Zhang, Bei Li, Zhenzhen Zhang, and Jiangtao Xu

■ **Advertisements**

- 110801 **Physike Technology Co., Ltd.,**