

■ RESEARCH HIGHLIGHTS

120201 **Design and application of all-fused-ring electron acceptors**

[4 pages] Kai Xiang, Ning Su, Jianhua Chen, and Junqiao Ding

■ NEWS AND VIEWS

120401 **Artificial cat eye camera for objects detection against complex backgrounds and varied lighting**

[3 pages] Shengqiang Zhang and Zhuoran Wang

■ SHORT COMMUNICATIONS

120501 **PZT photonic materials and devices platform**

[5 pages] Yujun Xie, Peng Wang, Hongyan Yu, Chengyang Zhong, Jie Peng, Jungan Wang, Chen Yang, Yu Han, Ang Li, Zehao Guan, Feng Qiu, and Ming Li

■ REVIEWS

121601 **Recent advances and future prospects in tactile sensors for normal and shear force detection, decoupling, and applications**

[15 pages] Jinrong Huang, Yuchen Guo, Yongchang Jiang, Feiyu Wang, Lijia Pan, and Yi Shi

121701 **Semiconductor-based direct current triboelectric nanogenerators and its application**

[13 pages] Xin Shi, Weiguo Wang, Jun Wang, Jian Li, and Huamin Chen

■ ARTICLES

122101 **Advancing Al-doped ZnO thin films structural, optical and electrical properties of low temperature PET substrates via flash lamp annealing**

[14 pages] Juwon Lee, Chang-Hyeon Jo, Gwangseop Lee, Min-Sung Bae, Slawomir Prucnal, Shengqiang Zhou, Muhammad Zubair Khan, Osama Gohar, Mohsin Saleem, and Jung-Hyuk Koh

122102 **Growth, characterization, and transport calculation of Ge/SiGe heterojunction: strategy for the growth of undoped Ge quantum wells**

[9 pages] Yiwen Zhang, Jun Deng, Zonghu Li, Xinyou Liu, Haiou Li, Baochuan Wang, Jun Luo, Zhenzhen Kong, Gang Cao, Guoping Guo, Chao Zhao, and Guilei Wang

122301 **The impact of plasmonic Ag–Au bimetallic nanoparticles on photocurrent enhancement in GaN-based photodetectors**

[7 pages] Thi Kim Oanh Vu, Thi Thu Phuong Bui, Ngoc Anh Nguyen, Thi Thanh Bao Nguyen, Thi Minh Hien Nguyen, and Eun Kyu Kim

122302 **Flexible biomimetic olfactory neurons based on organic heterojunction**

[7 pages] Tianyang Feng, Jialin Meng, Hang Xu, Yafen Yang, Tianyu Wang, Hao Zhu, Qingqing Sun, David Wei Zhang, and Lin Chen

-
- 122303 **Research on process-induced effect in 14-nm FinFET gate formation and digital unit optimization design**
[6 pages] Yafen Yang, Hang Xu, Tianyang Feng, Jianbin Guo, and David Wei Zhang
- 122304 **Thermoelectric infrared detectors: Design, fabrication, and performance assessment**
[16 pages] Daryoosh Vashaee
- 122401 **Experimental study on phase noise of terahertz quantum cascade laser frequency comb and dual-comb sources**
[7 pages] Lulu Zheng, Xianglong Bi, Xuhong Ma, Guibin Liu, Binbin Liu, Kang Zhou, and Hua Li
- 122402 **Self-powered PEDOT:PSS/Sn: α -Ga₂O₃ heterojunction UV photodetector via organic/inorganic hybrid ink engineering**
[9 pages] Yifan Yao, Suhao Yao, Jiaqing Yuan, Zeng Liu, Maolin Zhang, Lili Yang, and Weihua Tang
- 122403 **Laser processing induced nonvolatile memory in chaotic graphene oxide films for flexible reservoir computing applications**
[5 pages] Bo Chen, Baojie Zhu, Yifan Wu, Pengpeng Sang, Jixuan Wu, Xuepeng Zhan, and Jiezhi Chen
- 122501 **Short-circuit failure modes and mechanism investigation of 1200 V planar SiC MOSFETs**
[8 pages] Yi Huang, Qiurui Chen, Rongyao Ma, Kaifeng Tang, Qi Wang, Hongsheng Zhang, Ji Ding, Dandan Xu, Sheng Gao, and Genquan Han
- 122502 **Low-resistance Ohmic contact for GaN-based laser diodes**
[6 pages] Junfei Wang, Junhui Hu, Chaowen Guan, Songke Fang, Zhichong Wang, Guobin Wang, Ke Xu, Tengbo Lv, Xiaoli Wang, Jianyang Shi, Ziwei Li, Junwen Zhang, Nan Chi, and Chao Shen
- 122701 **Displacement damage effects in MoS₂-based electronics**
[7 pages] Kaiyue He, Zhanqi Li, Taotao Li, Yifu Sun, Shitong Zhu, Chao Wu, Huiping Zhu, Peng Lu, Xinran Wang, and Maguang Zhu

■ Advertisements

- 129801 **Physike Technology Co., Ltd.**
- 129802 **Dynasense Photonics Co., Ltd.**