

■ NEWS AND VIEWS

- 090401 **Bio-inspired spectral adaptive visual devices: A new paradigm for structure-defined functionality**

[4 pages] Youyou Bao, Yuhua Zhao, Daixuan Wu, and He Tian

■ SHORT COMMUNICATION

- 090501 **Room-temperature electrically injected GaN-based photonic-crystal surface-emitting lasers**

[3 pages] Tong Xu, Meixin Feng, Xujian Sun, Rui Xi, Xinchao Li, Shuming Zhang, Qian Sun, Xiaoqi Yu, Kanglin Xiong, Hui Yang, Xianfei Zhang, Zhuangpeng Guo, and Peng Chen

■ REVIEWS

- 091701 **Nucleation control for the growth of two-dimensional single crystals**

[9 pages] Jinxia Bai, Chi Zhang, Fankai Zeng, Jinzong Kou, Jinhuan Wang, and Xiaozhi Xu

■ ARTICLES

- 092101 **Dynamic avalanche reliability enhancement of FS-IGBT under unclamped inductive switching**

[12 pages] Jingping Zhang, Houcai Luo, Huan Wu, Bofeng Zheng, and Xianping Chen

- 092201 **A 128 × 128 monolithic spike-based hybrid-vision sensor with 0.96 Geps and 117 kfps**

[8 pages] Huanhui Zhang, Chi Zhang, Xu Yang, Zhe Wang, Cong Shi, Runjiang Dou, Shuangming Yu, Jian Liu, Nanjian Wu, Peng Feng, and Liyuan Liu

- 092501 **Reducing specific contact resistivity of V/Al/Ti/Au n-electrode on n-AlGaN with Al content over 80% for far-UVC LEDs**

[8 pages] Jiale Peng, Ke Jiang, Shanli Zhang, Jianwei Ben, Kexi Liu, Ziyue Qin, Ruihua Chen, Chunyue Zhang, Shunpeng Lv, Xiaojuan Sun, and Dabing Li

- 092502 **AlGaN/GaN-based SBDs grown on silicon substrates with trenched n⁺-GaN cap layer and local passivation layer to improve BFOM and dynamic properties**

[11 pages] Zhizhong Wang, Jingting He, Fuping Huang, Xuchen Gao, Kangkai Tian, Chunshuang Chu, Yonghui Zhang, Shuting Cai, Xiaojuan Sun, Dabing Li, Xiao Wei Sun, and Zi-Hui Zhang

- 092503 **GaN diodes comparative study for high energy protons detection**

[7 pages] Matilde Siviero, Maxime Hugues, Lucas Lesourd, Eric Frayssinet, Shirley Prado de la Cruz, Sebastien Chenot, Johan-Petter Hofverberg, Marie Vidal, and Jean-Yves Duboz

- 092601 **Self-assembled flexible Ti₃C₂T_x MXene-based thermally chargeable supercapacitor**

[6 pages] Lifeng Wu, La Li, and Guozhen Shen

092602 Improving electrical performance and fringe effect in p-type SnO_x thin film transistors via Ta incorporation

[8 pages] Yu Song, Runtong Guo, Ruohao Hong, Rui He, Xuming Zou, Benjamin Iñiguez, Denis Flandre, Lei Liao, and Guoli Li

■ Advertisements

099801 **Physike Technology Co., Ltd.**

099802 **Dynasense Photonics Co., Ltd.**