

■ NEWS AND VIEWS

- 120401 **Advancing highly efficient and mechanically resilient flexible perovskite-silicon tandem solar cells**

[4 pages] Zhaoyang Han, and Qi Jiang

■ REVIEWS

- 121801 **A minireview on technology and application of silicon integrated single crystal perovskite**

[11 pages] Jing Weng, Molang Cai, Xu Pan, and Xing Li

■ ARTICLES

- 122101 **Eco-sustainable biosynthesis of CoFe_2O_4 nanoparticles using apple extract for multifunctional applications**

[35 pages] Heba Hussein, Sobhy Sayed Ibrahim, and Sherif Ahmed Khairy

- 122301 **A high reliability NOR flash cell in 50 nm node technology**

[7 pages] Kevin Fang, Wei Wang, Yibai Xue, Fan Wang, Dong Pan, Yi Li, and Jerry Zhou

- 122302 **Simulation and fabrication of vertical channel transistors with self-aligned high- κ metal gates using ion implantation for source/drain doping**

[9 pages] Penghui Sun, Yongkui Zhang, and Jun Luo

- 122401 **Jitter suppression scheme for detection pulses in high-speed sinusoidal gated single-photon detectors**

[6 pages] Lianjun Jiang, Dongdong Li, Dawei Li, Yuqiang Fang, Ming Liu, Wei Jiang, Zhilin Xie, Guoqing Liu, Rui Ma, Yukang Zhao, Jian Sun, Lei Chang, Lin Yu, and Shibiao Tang

- 122501 **A γ -irradiated AlGaIn/GaN Schottky barrier diode with barrier-decreased Schottky junction and high breakdown voltage**

[7 pages] Jiahao Chen, Tao Zhang, Ziqi Tao, Kai Su, Shengrui Xu, Xiangdong Li, Huake Su, Yachao Zhang, Yue Hao, and Jincheng Zhang

- 122601 **Breathable and skin-conformal electronic skin with dual-modality synchronous perception of pressure and temperature**

[14 pages] Hao Zhu, Zhelin Jin, Tie Li, Guanggui Cheng, and Jianning Ding

- 122701 **Effect of nitrogen incorporation and surface passivation on photoluminescence properties of InAs-based nanowires**

[6 pages] Ratmir Ustimenko, Danila Karaulov, Maxim Vinnichenko, Ilya Norvatov, Andrey Kaveev, Vladimir Fedorov, Ivan Mukhin, and Dmitry Firsov

■ Advertisements

- 129801 **Physike Technology Co., Ltd.**

- 129802 **Dynasense Photonics Co., Ltd.**