

■ RESEARCH HIGHLIGHTS

- 080201 **Ionic liquids in perovskite solar cells**
[3 pages] Wensi Cai, Zhigang Zang, and Liming Ding
- 080202 **Polymer acceptors for all-polymer solar cells**
[4 pages] Xiaofei Ji, Zuo Xiao, Huiliang Sun, Xugang Guo, and Liming Ding
- 080203 **Perovskite crystallization**
[4 pages] Lili Ke and Liming Ding

■ COMMENTS AND OPINIONS

- 080301 **All-polymer solar cells**
[7 pages] Baoqi Wu, Bingyan Yin, Chunhui Duan, and Liming Ding

■ REVIEWS

- 081001 **Black phosphorus junctions and their electrical and optoelectronic applications**
[13 pages] Ningqin Deng, He Tian, Jian Zhang, Jinming Jian, Fan Wu, Yang Shen, Yi Yang, and Tian-Ling Ren
- 081801 **Ultraviolet communication technique and its application**
[13 pages] Liang Guo, Yanan Guo, Junxi Wang, and Tongbo Wei

■ ARTICLES

- 082001 **Extensive study of optical contrast between bulk and nanoscale transition metal dichalcogenide semiconductors**
[7 pages] Ankush Parmar, Jashangeet Kaur, Manish Dev Sharma, and Navdeep Goyal
- 082301 **Ultra-low V_{pp} and high-modulation-depth InP-based electro-optic microring modulator**
[5 pages] Dapeng Liu, Jian Tang, Yao Meng, Wei Li, Ninghua Zhu, and Ming Li
- 082401 **Low-cost dual-stage offset-cancelled sense amplifier with hybrid read reference generator for improved read performance of RRAM at advanced technology nodes**
[6 pages] Qiao Wang, Donglin Zhang, Yulin Zhao, Chao Liu, Xiaoxin Xu, Jianguo Yang, and Hangbing Lv
- 082801 **First-principles study of the growth and diffusion of B and N atoms on the sapphire surface with h-BN as the buffer layer**
[7 pages] Jianyun Zhao, Xu Li, Ting Liu, Yong Lu, and Jicai Zhang
- 082802 **Impact of switching frequencies on the TID response of SiC power MOSFETs**
[4 pages] Sheng Yang, Xiaowen Liang, Jiangwei Cui, Qiwen Zheng, Jing Sun, Mohan Liu, Dang Zhang, Haonan Feng, Xuefeng Yu, Chuanfeng Xiang, Yudong Li, and Qi Guo

- 082901 **Targeted transfer of self-assembled CdSe nanoplatelet film onto WS₂ flakes to construct hybrid heterostructures**
[5 pages] Zeguo Song, Yunkun Wang, Yunke Zhu, Peng Bai, An Hu, and Yunan Gao
- 084101 **Reliability evaluation on sense-switch p-channel flash**
[5 pages] Side Song, Guozhu Liu, Hailiang Zhang, Lichao Chao, Jinghe Wei, Wei Zhao, Genshen Hong, and Qi He