

■ RESEARCH HIGHLIGHTS

060201 GIWAXS: A powerful tool for perovskite photovoltaics

Chenyue Wang, Chuantian Zuo, Qi Chen, and Liming Ding [3 pages]

060202 Low-bandgap Sn-Pb perovskite solar cells

Rui He, Chuantian Zuo, Shengqiang Ren, Dewei Zhao, and Liming Ding [4 pages]

■ NEWS AND VIEWS

[3 pages] Xin Lu

Efficient p-type doping in ultra-wide band-gap nitrides using non-equilibrium 060402

doping method

Jianbai Xia [2 pages]

■ SHORT COMMUNICATION

060501	Dithieno[3',2':3,4;2",3":5,6]benzo[1,2-c][1,2,5]oxadiazole-based polymer donors

with deep HOMO levels

Xiongfeng Li, Jingui Xu, Zuo Xiao, Xingzhu Wang, Bin Zhang, and Liming Ding [4 pages]

18.69% PCE from organic solar cells 060502

Ke Jin, Zuo Xiao, and Liming Ding [2 pages]

■ REVIEWS

A review of manufacturing technologies for silicon carbide superjunction 061801

devices

Run Tian, Chao Ma, Jingmin Wu, Zhiyu Guo, Xiang Yang, and Zhongchao Fan [6 pages]

ARTICLES

062301	Modeling the photon counting and photoelectron counting characteristics of
	guente image concers

quanta image sensors

Bowen Liu and Jiangtao Xu [10 pages]

Heavily doped silicon: A potential replacement of conventional plasmonic 062302

metals

Md. Omar Faruque, Rabiul Al Mahmud, and Rakibul Hasan Sagor [6 pages]

3.3 kV 4H-SiC DMOSFET with a source-contacted dummy gate for high-062801

frequency applications

Kyuhyun Cha and Kwangsoo Kim [7 pages]



062802	Determination of trap density-of-states distribution of nitrogen-doped ultrananocrystalline diamond/hydrogenated amorphous carbon composite films
[7 pages]	Mahmoud Shaban
062803	A 3.3 kV 4H-SiC split gate MOSFET with a central implant region for superior trade-off between static and switching performance
[9 pages]	Jongwoon Yoon and Kwangsoo Kim
064101	Oscillation neuron based on a low-variability threshold switching device for high-performance neuromorphic computing
[6 pages]	Yujia Li, Jianshi Tang, Bin Gao, Xinyi Li, Yue Xi, Wanrong Zhang, He Qian, and Huaqiang Wu