

# ■ RESEARCH HIGHLIGHTS

050201	Domain controlling and defect passivation for efficient quasi-2D perovskite LEDs
[4 pages]	Dezhong Zhang, Chuanjiang Qin, and Liming Ding

050202 The physical origin of stimulated emission in perovskites

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Nonfullerene acceptors based on perylene monoimides 050203

Yutong Ji, Helong Bai, Lixiu Zhang, Youdi Zhang, and Liming Ding [3 pages]

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Chengwei Qiu [2 pages]

# **■ SHORT COMMUNICATION**

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[4 pages]	Ke Jin, Zongliang Ou, Lixiu Zhang, Yongbo Yuan, Zuo Xiao, Qiuling Song, Chenyi Yi, and Liming Ding
050502	Additive and interfacial control for efficient perovskite light-emitting diodes with reduced trap densities
[5 pages]	Shun Tian, Chen Zou, Runchen Lai, Chungen Hsu, Xuhui Cao, Shiyu Xing, Baodan Zhao, and Dawei Di

### **■ REVIEWS**

051201	Multifunctional neurosynaptic devices for human perception systems
[13 pages]	Wei Wen, Yunlong Guo, and Yunqi Liu
051202	Characterization of interfaces: Lessons from the past for the future of perovskite solar cells
[12 pages]	Wanlong Wang, Dongyang Zhang, Rong Liu, Deepak Thrithamarassery Gangadharan, Furui Tan, and Makhsud I. Saidaminov

### **■ ARTICLES**

052001	Magnetic tuning in a novel half-metallic Ir <sub>2</sub> Tel <sub>2</sub> monolayer
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052002	Double-balanced mixer based on monolayer graphene field-effect transistors
[5 pages]	Min Wu, Weida Hong, Guanyu Liu, Jiejun Zhang, Ziao Tian, and Miao Zhang
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[5 pages]	Yifan Fu, Liuhong Ma, Zhiyong Duan, and Weihua Han
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054103	Mechanism investigation of pre-existing void-induced multi-modal electro- migration behavior
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