

## ■ RESEARCH HIGHLIGHTS

030201 **High density three dimensional integration of organic transistors**

[1 page] Xiaojun Guo

030202 **Direct or indirect band gap**

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## ■ NEWS AND VIEWS

030401 **Healthcare electronic skin devices**

[2 pages] Quan Yuan, Zhong Ma, Sheng Li, and Lijia Pan

## ■ ARTICLES

032101 **Growth behavior and electronic properties of  $\text{Ge}_{n+1}$  and  $\text{AsGe}_n$  ( $n = 1-20$ ) clusters: a DFT study**

[9 pages] M. Benaïda, K. E. Aiadi, S. Mahtout, S. Djaadi, W. Rammal, and M. Harb

032201 **Influence of defect states on the performances of planar tin halide perovskite solar cells**

[6 pages] Shihua Huang, Zhe Rui, Dan Chi, and Daxin Bao

032301 **Influence of light absorption on the metallic nanotextured reflectors of GaN-based light emitting diodes**

[4 pages] Xuejiao Sun, Zhiguo Yu, Ning Zhang, Lei Liu, Junxi Wang, Jinmin Li, and Yun Zhang

032701 **Photovoltaic properties of  $\text{Cu}_2\text{O}$ -based heterojunction solar cells using n-type oxide semiconductor nano thin films prepared by low damage magnetron sputtering method**

[4 pages] Toshihiro Miyata, Kyosuke Watanabe, Hiroki Tokunaga, and Tadatsugu Minami

032702 **Optimization of broadband omnidirectional antireflection coatings for solar cells**

[6 pages] Xia Guo, Qiaoli Liu, Huijun Tian, Ben Li, Hongyi Zhou, Chong Li, Anqi Hu, and Xiaoying He

032703 **Pyramid size control and morphology treatment for high-efficiency silicon heterojunction solar cells**

[6 pages] Xiaorang Tian, Peide Han, Guanchao Zhao, Rong Yang, Liwei Li, Yuan Meng, and Ted Guo

032801 **Bandgap engineered novel g- $\text{C}_3\text{N}_4$ /G/h-BN heterostructure for electronic applications**

[5 pages] Santosh Kumar Gupta and Rupesh Shukla

032802 **Numerical simulation of UV LEDs with GaN and BGaN single quantum well**

[6 pages] Asma Belaid and Abdelkader Hamdoun