

■ Special Issue on Flexible and Wearable Electronics: from Materials to Applications

Preface

Guozhen Shen, Yongfeng Mei, Chuan Wang, and Taeyoon Lee

- 011001 **Engineering in-plane silicon nanowire springs for highly stretchable electronics**
[14 pages] Zhaoquo Xue, Taige Dong, Zhimin Zhu, Yaolong Zhao, Ying Sun, and Linwei Yu
- 011002 **Printable inorganic nanomaterials for flexible transparent electrodes: from synthesis to application**
[22 pages] Dingrun Wang, Yongfeng Mei, and Gaoshan Huang
- 011003 **Materials and applications of bioresorbable electronics**
[10 pages] Xian Huang
- 011004 **The applications of carbon nanomaterials in fiber-shaped energy storage devices**
[9 pages] Jingxia Wu, Yang Hong, and Bingjie Wang
- 011005 **Oxide-based thin film transistors for flexible electronics**
[16 pages] Yongli He, Xiangyu Wang, Ya Gao, Yahui Hou, and Qing Wan
- 011006 **Flexible magnetic thin films and devices**
[13 pages] Ping Sheng, Baomin Wang, and Runwei Li
- 011007 **Graphene-based flexible and wearable electronics**
[19 pages] Tanmoy Das, Bhupendra K. Sharma, Ajit K. Katiyar, and Jong-Hyun Ahn
- 011008 **Review of recent progresses on flexible oxide semiconductor thin film transistors based on atomic layer deposition processes**
[12 pages] Jiazhen Sheng, Ki-Lim Han, TaeHyun Hong, Wan-Ho Choi, and Jin-Seong Park
- 011009 **Hybrid functional microfibers for textile electronics and biosensors**
[18 pages] Bichitra Nanda Sahoo, Byungwoo Choi, Jungmok Seo, and Taeyoon Lee
- 011010 **Flexible devices: from materials, architectures to applications**
[18 pages] Mingzhi Zou, Yue Ma, Xin Yuan, Yi Hu, Jie Liu, and Zhong Jin
- 011011 **Recent advances in flexible and wearable organic optoelectronic devices**
[22 pages] Hong Zhu, Yang Shen, Yanqing Li, and Jianxin Tang
- 011012 **Recent process of flexible and wearable sensors for human-motion monitoring**
[21 pages] Gang Ge, Wei Huang, Jinjun Shao, and Xiaochen Dong

- 013001 **Silver nanowire/polymer composite soft conductive film fabricated by large-area compatible coating for flexible pressure sensor array**
[6 pages] Sujie Chen, Siying Li, Sai Peng, Yukun Huang, Jiaqing Zhao, Wei Tang, and Xiaojun Guo
- 013002 **Ultrathin free-standing graphene oxide film based flexible touchless sensor**
[6 pages] Lin Liu, Yingyi Wang, Guanghui Li, Sujie Qin, and Ting Zhang
- 014001 **Stretchable human-machine interface based on skin-conformal sEMG electrodes with self-similar geometry**
[7 pages] Wentao Dong, Chen Zhu, Wei Hu, Lin Xiao, and Yong'an Huang
- 014002 **Interfacial engineering of printable bottom back metal electrodes for full-solution processed flexible organic solar cells**
[9 pages] Hongyu Zhen, Kan Li, Yaokang Zhang, Lina Chen, Liyong Niu, Xiaoling Wei, Xu Fang, Peng You, Zhike Liu, Dongrui Wang, Feng Yan, and Zijian Zheng
- 015001 **Inkjet printed large-area flexible circuits: a simple methodology for optimizing the printing quality**
[8 pages] Tao Cheng, Youwei Wu, Xiaoqin Shen, Wenyong Lai, and Wei Huang
- 015002 **Printed stretchable circuit on soft elastic substrate for wearable application**
[6 pages] Wei Yuan, Xinzhou Wu, Weibing Gu, Jian Lin, and Zheng Cui