

Special Issue on Flexible and Smart Electronics for Sensors 4.0

Guest editors: Zhuoran Wang, Yang Li, and Qilin Hua

■ EDITORIAL

010101 **Preface to Special Issue on Flexible and Smart Electronics for Sensors 4.0**

[2 page] Zhuoran Wang, Yang Li, and Qilin Hua

■ REVIEWS

011601 **Recent progress on stability and applications of flexible perovskite photodetectors**

[15 pages] Ying Hu, Qianpeng Zhang, Junchao Han, Xinxin Lian, Hualiang Lv, Yu Pei, Siqing Shen, Yongli Liang, Hao Hu, Meng Chen, Xiaoliang Mo, and Junhao Chu

011602 **Design strategies and insights of flexible infrared optoelectronic sensors**

[36 pages] Yegang Liang, Wenhao Ran, Dan Kuang, and Zhuoran Wang

011603 **Integration of wearable electronics and heart rate variability for human physical and mental well-being assessment**

[19 pages] Feifei Yin, Jian Chen, Haiying Xue, Kai Kang, Can Lu, Xinyi Chen, and Yang Li

011604 **Neurotransmitter-mediated artificial synapses based on organic electrochemical transistors for future biomimic and bioinspired neuromorphic systems**

[12 pages] Miao Cheng, Yifan Xie, Jinyao Wang, Qingqing Jin, Yue Tian, Changrui Liu, Jingyun Chu, Mengmeng Li, and Ling Li

011605 **Recent progress on elemental tellurium and its devices**

[16 pages] Jiachi Liao, Zhengxun Lai, You Meng, and Johnny C. Ho

011606 **Artificial sensory neurons and their applications**

[21 pages] Jiale Shao, Hongwei Ying, Peihong Cheng, Lingxiang Hu, Xianhua Wei, Zongxiao Li, Huanming Lu, Zhizhen Ye, and Fei Zhuge

011607 **Recent progress in flexible sensors based on 2D materials**

[13 pages] Xiang Li, Guancheng Wu, Caofeng Pan, and Rongrong Bao

011608 **Advances in flexible weak-light detectors based on perovskites: preparation, optimization, and application**

[21 pages] Yaqian Yang, Ying Li, Di Chen, and Guozhen Shen

011609 **Advancements in implantable temperature sensors: Materials, mechanisms, and biological applications**

[12 pages] Zhuofan Yang, Hongcheng Song, and He Ding

011610 **Recent progress on artificial intelligence-enhanced multimodal sensors integrated devices and systems**

[14 pages] Haihua Wang, Mingjian Zhou, Xiaolong Jia, Hualong Wei, Zhenjie Hu, Wei Li, Qiumeng Chen, and Lei Wang

■ ARTICLES

- 012601 **A smart finger patch with coupled magnetoelastic and resistive bending sensors**
[10 pages] Ziyi Dai, Mingrui Wang, Yu Wang, Zechuan Yu, Yan Li, Weidong Qin, and Kai Qian
- 012602 **Artificial self-powered and self-healable neuromorphic vision skin utilizing silver nanoparticle-doped ionogel photosynaptic heterostructure**
[9 pages] Xinkai Qian, Fa Zhang, Xiujuan Li, Junyue Li, Hongchao Sun, Qiye Wang, Chaoran Huang, Zhenyu Zhang, Zhe Zhou, and Juqing Liu
- 012603 **Graphene/F₁₆CuPc synaptic transistor for the emulation of multiplexed neurotransmission**
[9 pages] Zhipeng Xu, Yao Ni, Mingxin Sun, Yiming Yuan, Ning Wu, and Wentao Xu
- 012604 **Flexible artificial vision computing system based on FeO_x optomemristor for speech recognition**
[8 pages] Jie Li, Yue Xin, Bai Sun, Dengshun Gu, Changrong Liao, Xiaofang Hu, Lidan Wang, Shukai Duan, and Guangdong Zhou
- 012605 **Electrospraying Si/SiO_x/C and Sn/C nanosphere arrays on carbon cloth for high-performance flexible lithium-ion batteries**
[10 pages] Di Chen, Rui Li, Chunxue Liu, and Kai Jiang
- 012606 **Direct ink writing of nickel oxide-based thin films for room temperature gas detection**
[14 pages] Neha Thakur, Hari Murthy, Sudha Arumugam, Neethu Thomas, Aarju Mathew Koshy, and Parasuraman Swaminathan

■ Advertisements

- 019801 **Physike Technology Co., Ltd.**
- 019802 **Dynasense Photonics Co., Ltd.**