

Special Issue on Novel Semiconductor-biochemical Sensors

Guest editors: Zhao Li, Xiangmei Lin, Dongxian He, Yingxin Ma, and Yuanjing Lin

RESEARCH HIGHLIGHTS

020201 Perovskite/organic tandem solar cells

[3 pages] Jie Sun and Liming Ding

020202 Doping organic hole-transport materials for high-performance perovskite solar cells

[5 pages] Dongmei He, Shirong Lu, Juan Hou, Cong Chen, Jiangzhao Chen, and Liming Ding

EDITORIAL

020101 Preface to Special Issue on Novel Semiconductor-biochemical Sensors

[2 pages] Zhao Li, Xiangmei Lin, Dongxian He, Yingxin Ma, and Yuanjing Lin

REVIEWS

021601 Wearable sweat biosensors on textiles for health monitoring

[14 pages] Yuqing Shi, Ziyu Zhang, Qiyao Huang, Yuanjing Lin, and Zijian Zheng

023101 Biofunctionalized semiconductor quantum dots for virus detection

[15 pages] Yingqi Liang, Guobin Mao, Junbiao Dai, and Yingxin Ma

023102 Application and prospect of semiconductor biosensors in detection of viral zoonoses

[9 pages] Jiahao Zheng, Chunyan Feng, Songyin Qiu, Ke Xu, Caixia Wang, Xiaofei Liu, Jizhou Lv, Haoyang Yu, and Shaoqiang Wu

023103 A brief review of novel nucleic acid test biosensors and their application prospects for salmonids viral diseases detection

[8 pages] Xiaofei Liu, Songyin Qiu, Haiping Fang, Lin Mei, Hongli Jing, Chunyan Feng, Shaoqiang Wu, and Xiangmei Lin

023104 Advanced biosensing technologies for monitoring of agriculture pests and diseases: A review

[9 pages] Jiayao He, Ke Chen, Xubin Pan, Junfeng Zhai, and Xiangmei Lin

023105 Microcantilever sensors for biochemical detection

[11 pages] Jingjing Wang, Baozheng Xu, Yinfang Zhu, and Junyuan Zhao

ARTICLES

022001 Ultrasensitive detection of methamphetamine by antibody-modified transistor assay

[5 pages] Banpeng Cao, Changhao Dai, Xuejun Wang, and Dacheng Wei

024101 A 640 × 640 ISFET array for detecting cell metabolism

[8 pages] Ling Yang, Yizheng Huang, Zhigang Song, Manqing Tan, Yude Yu, and Zhao Li