2022年度科技论文清单

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| **序号** | **论文名称** | **期刊名称** | **期刊类别** | **收录类别** | **所有作者** | **通讯作者** | **第一单位** | **通讯单位** | **发表年份** | **卷、期** | **页面范围文章号** |
| 1 | Detection of EGFR gene with a droplet digital PCR chip integrating a double-layer glass reservoir | Analytical Biochemistry | 国外重要刊物 | SCI和EI同时收录 | Yuan, Haojun; Gao, Wanlei; Yin, Jiawen; Chen, Kai; Mu, Ying; Jin, Qinghui; Jia, Chunping; Cong, Hui; Yu, Jiancheng; Zhao, Jianlong | Gao, Wanlei ; Jin, Qinghui | 宁波大学 | 宁波大学，传感技术国家重点实验室 | 2022-11 | 656 | 10.1016/j.ab.2022.114877 |
| 2 | Integrated microfluidic system for isolating exosome and analyzing protein marker PD-L1 | Biosensors and Bioelectronics | 国外重要刊物 | SCI和EI同时收录 | Lu, Yunxing; Ye, Ling; Jian, Xiaoyu; Yang, Dawei; Zhang, Hongwei; Tong, Zhaoduo; Wu, Zhenhua; Shi, Nan; Han, Yunwei; Mao, Hongju | Mao, Hongju ; Han, Yunwei ; Shi, Nan | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 204 | 10.1016/j.bios.2021.113879 |
| 3 | An Integrated Sample-to-Answer SERS Platform for Multiplex Phenotyping of Extracellular Vesicles | SSRN | 国外重要刊物 | EI收录 | Lin, Weiming; Yuan, Liwen; Gao, Zehang; Cai, Gaozhe; Liang, Cheng; Fan, Min; Xiu, Xianjie; Huang, Zufang; Feng, Shilun; Wang, Jing | Huang, Zufang ; Feng, Shilun ; Wang, Jing | 福建师范大学 | 传感技术国家重点实验室 | 2022-01 | / | 10.2139/ssrn.4328209 |
| 4 | Recent Progress in Bio-Integrated Intelligent Sensing System | Advanced Intelligent Systems | 国外重要刊物 | EI收录 | Liu, Mengwei; Zhang, Yujia; Tao, Tiger H. | Tao, Tiger H. | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-06 | 4,6 | 10.1002/aisy.202100280 |
| 5 | A silk-based self-adaptive flexible opto-electro neural probe | Microsystems and Nanoengineering | 国外重要刊物 | SCI和EI同时收录 | Zhou, Yu; Gu, Chi; Liang, Jizhi; Zhang, Bohan; Yang, Huiran; Zhou, Zhitao; Li, Meng; Sun, Liuyang; Tao, Tiger H.; Wei, Xiaoling | Tao, Tiger H. ; Wei, Xiaoling | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-12 | 8,1 | 10.1038/s41378-022-00461-4 |
| 6 | Demands and technical developments of clinical flow cytometry with emphasis in quantitative, spectral, and imaging capabilities | Nanotechnology and Precision Engineering | 国外重要刊物 | EI收录 | Zhang, Ting; Gao, Mengge; Chen, Xiao; Gao, Chiyuan; Feng, Shilun; Chen, Deyong; Wang, Junbo; Zhao, Xiaosu; Chen, Jian | Wang, Junbo ; Chen, Jian ; Zhao, Xiaosu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-12 | 5,4 | 10.1063/10.0015301 |
| 7 | Silk Microneedle Patch Capable of On-Demand Multidrug Delivery to the Brain for Glioblastoma Treatment | Advanced Materials | 国外重要刊物 | EI收录 | Wang, Zijing; Yang, Zhipeng; Jiang, Jianjuan; Shi, Zhifeng; Mao, Ying; Qin, Nan; Tao, Tiger H. | Qin, Nan ; Tao, Tiger H. | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-06 | 34,1 | 10.1002/adma.202106606 |
| 8 | Lower fluidic resistance of double-layer droplet continuous flow PCR microfluidic chip for rapid detection of bacteria | Analytica Chimica Acta | 国外重要刊物 | EI收录 | Li, Zhenqing; Wang, Yifei; Gao, Zehang; Sekine, Shinichi; You, Qingxiang; Zhuang, Songlin; Zhang, Dawei; Feng, Shilun; Yamaguchi, Yoshinori | Zhang, Dawei ; Feng, Shilun ; Yamaguchi, Yoshinori | 上海科技大学 | 传感技术国家重点实验室 | 2022-04 | 1251, | 10.1016/j.aca.2023.340995 |
| 9 | A microfluidic immunosensor based on magnetic separation for rapid detection of okadaic acid in marine shellfish | Analytica Chimica Acta | 国外重要刊物 | EI收录 | Ji, Yuxiang; Cai, Gaozhe; Liang, Cheng; Gao, Zehang; Lin, Weimin; Ming, Zizhen; Feng, Shilun; Zhao, Hongwei | Zhao, Hongwei ; Feng, Shilun | 海南大学 | 传感技术国家重点实验室 | 2022-01 | 1239, | 10.1016/j.aca.2022.340737 |
| 10 | Single-cell sorting using integrated pneumatic valve droplet microfluidic chip | Talanta | 国外重要刊物 | EI收录 | Zhou, Yang; Yu, Zhibin; Wu, Man; Lan, Yuwei; Jia, Chunping; Zhao, Jianlong | Zhao, Jianlong ; Jia, Chunping | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 253 | 10.1016/j.talanta.2022.124044 |
| 11 | Microcantilever-Based In Situ Temperature-Programmed Desorption (TPD) Technique | Journal of Physical Chemistry Letters | 国外重要刊物 | SCI和EI同时收录 | Xu, Pengcheng; Li, Xinyu; Zhou, Yufan; Chen, Ying; Wang, Xuefeng; Jia, Hao; Li, Ming; Yu, Haitao; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 14,2 | 567-575 |
| 12 | 3D Electron-Beam Writing of Functional Nanostructures in Recombinant Spider Silk Proteins | IEEE Symposium on Mass Storage Systems and Technologies | 国外重要刊物 | EI收录 | Qin, Nan; Jiang, Jianjuan; Tao, Tiger H. | Tao, Tiger H. | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | / | 1-4 |
| 13 | Wafer-Level Fabricated Tight-Coupling Dual-Solenoid Transformer Chips With Watt-Scale Power Transfer | IEEE Transactions on Power Electronics | 国外重要刊物 | EI收录 | Chen, Changnan; Pan, Pichao; Lyu, Dongfeng; Gu, Jiebin; Liu, Min; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-04 | 38,4 | 5118-5127 |
| 14 | An easy-repeat method to build a blood-brain barrier model on a chip with independent TEER detection module | Chinese Journal of Analytical Chemistry | 国外重要刊物 | EI收录 | Yang, Pan-Hui; Zheng, Feng-Yi; Li, Qiu-Shi; Tian, Tian; Zhang, Guo-Yuan; Wu, Lei; Mao, Hong-Ju | Wu, Lei | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 50,2 | 97-101 |
| 15 | Sensitivity of photoelctrocehmical aptasensor using spiral nanorods for detecting antiobiotic levels in experimental and real samples | Talanta | 国外重要刊物 | EI收录 | Sun, Yimeng; Ma, Cong; Wu, Man; Jia, Chunping; Feng, Shilun; Zhao, Jianlong; Liang, Lijuan | Liang, Lijuan ; Feng, Shilun | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 237 | 10.1016/j.talanta.2021.122930 |
| 16 | In Situ TEM Technique Revealing the Deactivation Mechanism of Bimetallic Pd-Ag Nanoparticles in Hydrogen Sensors | Nano Letters | 国外重要刊物 | SCI和EI同时收录 | Wang, Xueqing; Li, Ming; Xu, Pengcheng; Chen, Ying; Yu, Haitao; Li, Xinxin | Xu, Pengcheng | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-04 | 22,7 | 3157-3164 |
| 17 | A batch microfabrication of a self-cleaning, ultradurable electrochemical sensor employing a BDD film for the online monitoring of free chlorine in tap water | Microsystems and Nanoengineering | 国外重要刊物 | SCI和EI同时收录 | Yin, Jiawen; Gao, Wanlei; Yu, Weijian; Guan, Yihua; Wang, Zhenyu; Jin, Qinghui | Gao, Wanlei ; Jin, Qinghui | 宁波大学 | 宁波大学，传感技术国家重点实验室 | 2022-12 | 8,1 | 10.1038/s41378-022-00359-1 |
| 18 | A semi-packed gas chromatography column with high-density elliptic cylindrical posts | Journal of Chromatography A | 国外重要刊物 | EI收录 | Chen, Boxin; Feng, Fei; Zhao, Yangyang; Liu, Qiyong; Zhao, Bin; Li, Lei; Zhou, Haimei; Li, Xinxin | Feng, Fei | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 1662 | 10.1016/j.chroma.2021.462725 |
| 19 | Chip-Based MEMS Platform for Thermogravimetric/Differential Thermal Analysis (TG/DTA) Joint Characterization of Materials | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Zhou, Wenhan; Li, Xinyu; Yao, Fanglan; Zhang, Haozhi; Sun, Ke; Chen, Fang; Xu, Pengcheng; Li, Xinxin | Xu, Pengcheng ; Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-03 | 13,3 | 10.3390/mi13030445 |
| 20 | A two-step wet etching process of PZT thin film with ultra-low undercut for MEMS applications | Sensors and Actuators A: Physical | 国外重要刊物 | EI收录 | Su, Yongquan; Liu, Yichen; Fei, Yue; Wang, Lihao; Cai, Jindong; Chen, Siqi; Wu, Zhenyu | Wu, Zhenyu | 上海大学 | 上海大学，传感技术国家重点实验室 | 2022-01 | 349 | 10.1016/j.sna.2022.114014 |
| 21 | Resolution adjustable Lissajous scanning with piezoelectric MEMS mirrors | Optics Express | 国外重要刊物 | EI收录 | Zhang, Yuyao; Liu, Yichen; Wang, Lihao; Su, Yongquan; Zhang, Yonggui; Yu, Zihao; Zhu, Weihong; Wang, Yang; Wu, Zhenyu | Wang, Yang | 上海大学 | 上海大学，传感技术国家重点实验室 | 2022-01 | 31,2 | 2846-2859 |
| 22 | Microfabricated sensor device for CW and pulsed laser power measurements | Optics Express | 国外重要刊物 | EI收录 | Hu, Yuqiang; Xie, Fei; Liu, Qihui; Wang, Nan; Zhang, Jin; Liu, Yichen; Su, Yongquan; Wang, Yang; Chen, Hao; Wu, Zhenyu | Chen, Hao | 上海大学 | 上海大学，传感技术国家重点实验室 | 2022-01 | 31,2 | 2330-2344 |
| 23 | Single-side micromachined ultra-small thermopile IR detecting pixels for dense-array integration | Journal of Micromechanics and Microengineering | 国外重要刊物 | EI收录 | Zhou, Wenhan; Zhang, Haozhi; Chen, Pu; Ni, Zao; Li, Wei; Wang, Jiachou; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 32,5 | 10.1088/1361-6439/ac5c76 |
| 24 | Integrated Piezoresistive Normal Force Sensors Fabricated Using Transfer Processes with Stiction Effect Temporary Handling | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Liu, Ni; Zhong, Peng; Zheng, Chaoyue; Sun, Ke; Zhong, Yifei; Yang, Heng | Zhong, Yifei ; Yang, Heng | 上海中医药大学 | 上海中医药大学，传感技术国家重点实验室 | 2022-05 | 13,5 | 10.3390/mi13050759 |
| 25 | An all-silicon microfabricated gas chromatographic column with a high aspect ratio | Sensors and Actuators B: Chemical | 国外重要刊物 | EI收录 | Zhang, Haiyan; Feng, Fei; Zhao, Yangyang; Zhao, Bin; Li, Lei; Zheng, Dan; Li, Xinxin | Feng, Fei | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-09 | 367 | 10.1016/j.snb.2022.132156 |
| 26 | Free chlorine ultra-sensitive detection in tap water via an enrichment-sensing process by an interdigitated microelectrode sensor | Electrochimica Acta | 国外重要刊物 | EI收录 | Yin, Jiawen; Zhang, Jinghe; Feng, Lufan; Guan, Yihua; Gao, Wanlei; Jin, Qinghui | Gao, Wanlei | 宁波大学 | 宁波大学，传感技术国家重点实验室 | 2022-07 | 419 | 10.1016/j.electacta.2022.140428 |
| 27 | Fabrication of a micro gas chromatography column via the layer-by-layer deposition of mesoporous silica as the stationary phase | Journal of Chromatography A | 国外重要刊物 | SCI和EI同时收录 | Zhang, Haiyan; Feng, Fei; Zhao, Yangyang; Zhao, Bin; Li, Lei; Zheng, Dan; Li, Xinxin | Feng, Fei | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-06 | 1673 | 10.1016/j.chroma.2022.463082 |
| 28 | AlScN Piezoelectric MEMS Mirrors with Large Field of View for LiDAR Application | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Liu, Yichen; Wang, Lihao; Su, Yongquan; Zhang, Yuyao; Wang, Yang; Wu, Zhenyu | Wu, Zhenyu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-09 | 13,9 | 10.3390/mi13091550 |
| 29 | Control Algorithm of a Novel MEMS Fast Steering Mirror for High Precision Beam Pointing | SSRN | 国外重要刊物 | EI收录 | Zihao, Yu; Lihao, Wang; Yang, Wang; Yonggui, Zhang; Yichen, Liu; Wu, Zhenyu | Zihao, Yu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-12 | / |  |
| 30 | Single-Crystal Capacitive Sensors with Micropatterned Electrodes via Space-Confined Growth of the Metal–Organic Framework HKUST-1 | Advanced Functional Materials | 国外重要刊物 | EI收录 | Xia, Benzheng; Matav, Aleksander; Tu, Min; Rubio-Giménez, Víctor; Tietze, Max Lutz; Marreiros, João; Ceyssens, Frederik; Cresens, Charlotte; Wauteraerts, Nathalie; Kubarev, Alexey; Kraft, Michael; Ameloot, Rob | Ameloot, Rob ; Tu, Min | 鲁汶大学 | 传感技术国家重点实验室 | 2022-09 | 32,36 | 10.1002/adfm.202204065 |
| 31 | Micro-PCR chip-based multifunctional ultrafast SARS-CoV-2 detection platform | Lab on a Chip | 国外重要刊物 | SCI和EI同时收录 | Yin, Hao; Tong, Zhaoduo; Shen, Chuanjie; Xu, Xin; Ma, Hui; Wu, Zhenhua; Qi, Yong; Mao, Hongju | Wu, Zhenhua ; Qi, Yong ; Mao, Hongju | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 22,14 | 2671-2681 |
| 32 | A microfabricated fiber-integrated diamond magnetometer with ensemble nitrogen-vacancy centers | Applied Physics Letters | 国外重要刊物 | EI收录 | Xie, Fei; Hu, Yuqiang; Li, Lingyun; Wang, Cao; Liu, Qihui; Wang, Nan; Wang, Lihao; Wang, Shuna; Cheng, Jiangong; Chen, Hao; Wu, Zhenyu | Chen, Hao ; Wu, Zhenyu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 120,19 | 10.1063/5.0089732 |
| 33 | Process Control Monitor (PCM) for Simultaneous Determination of the Piezoelectric Coefficients d31 and d33 of AlN and AlScN Thin Films | Micromachines | 国外重要刊物 | EI收录 | Zhang, Hao; Wang, Yang; Wang, Lihao; Liu, Yichen; Chen, Hao; Wu, Zhenyu | Wu, Zhenyu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-04 | 13,4 | 10.3390/mi13040581 |
| 34 | Realization of high-dynamic-range broadband magnetic-field sensing with ensemble nitrogen-vacancy centers in diamond | Review of Scientific Instruments | 国外重要刊物 | SCI和EI同时收录 | Wang, Cao; Liu, Qihui; Hu, Yuqiang; Xie, Fei; Krishna, Krishangi; Wang, Nan; Wang, Lihao; Wang, Yang; Toussaint, Kimani C.; Cheng, Jiangong; Chen, Hao; Wu, Zhenyu | Cheng, Jiangong ; Chen, Hao ; Wu, Zhenyu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 94,1 | 10.1063/5.0089908 |
| 35 | MEMS-Casting Fabricated Chip-Style 3D Metal Solenoidal Transformers towards Integrated Power Supply | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Wang, Nianying; Chen, Changnan; Chen, Pu; Gu, Jiebin; Pan, Pichao; Han, Ruofeng; Liu, Min; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 13,2 | 10.3390/mi13020325 |
| 36 | The Discovery of Novel Circulating Cancer-Related Cells in Circulation Poses New Challenges to Microfluidic Devices for Enrichment and Detection | Small Methods | 国外重要刊物 | SCI和EI同时收录 | Wu, Man; Huang, Yuhang; Zhou, Yang; Zhao, Hui; Lan, Yuwei; Yu, Zhibin; Jia, Chunping; Cong, Hui; Zhao, Jianlong | Jia, Chunping ; Zhao, Jianlong ; Cong, Hui | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-07 | 6,7 | 10.1002/smtd.202200226 |
| 37 | Efficient Optoelectronic Devices Enabled by Near-Infrared Organic Semiconductors with a Photoresponse beyond 1050 nm | ACS Applied Materials and Interfaces | 国外重要刊物 | SCI和EI同时收录 | Zhang, Yi; Wei, Qingyun; He, Zhilong; Wang, Yan; Shan, Tong; Fu, Yanyan; Guo, Xiaojun; Zhong, Hongliang | Zhong, Hongliang ; Fu, Yanyan ; Guo, Xiaojun | 上海交通大学 | 传感技术国家重点实验室 | 2022-07 | 14,27 | 31066-31074 |
| 38 | Single-Atom-Regulated Heterostructure of Binary Nanosheets to Enable Dendrite-Free and Kinetics-Enhanced Li–S Batteries | Advanced Functional Materials | 国外重要刊物 | EI收录 | Zhou, Chao; Li, Ming; Hu, Nantao; Yang, Jianhua; Li, Hong; Yan, Jiawei; Lei, Puyi; Zhuang, Yunpeng; Guo, Shouwu | Guo, Shouwu ; Li, Ming | 上海交通大学 | 传感技术国家重点实验室 | 2022-08 | 32,33 | 10.1002/adfm.202204635 |
| 39 | Flexible Metal Halide Perovskite Photodetector Arrays via Photolithography and Dry Lift-Off Patterning | Advanced Engineering Materials | 国外重要刊物 | EI收录 | Xia, Benzheng; Tu, Min; Pradhan, Bapi; Ceyssens, Frederik; Tietze, Max Lutz; Rubio-Giménez, Víctor; Wauteraerts, Nathalie; Gao, Yujie; Kraft, Michael; Steele, Julian A.; Debroye, Elke; Hofkens, Johan; Ameloot, Rob | Tu, Min ; Ameloot, Rob | 鲁汶大学 | 鲁汶大学，传感技术国家重点实验室 | 2022-01 | 24,1 | 10.1002/adem.202100930 |
| 40 | A low-cost and simple-fabricated epidermal sweat patch based on "cut-and-paste" manufacture | Sensors and Actuators B: Chemical | 国外重要刊物 | EI收录 | Sun, Teng; Hui, Jianan; Zhou, Lin; Lin, Bo; Sun, Hebin; Bai, Yanan; Zhao, Jianlong; Mao, Hongju | Zhao, Jianlong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-10 | 368 | 10.1016/j.snb.2022.132184 |
| 41 | An Ex Vivo Study of Outward Electrical Impedance Tomography (OEIT) for Intravascular Imaging | IEEE Transactions on Biomedical Engineering | 国外重要刊物 | EI收录 | Luo, Yuan; Huang, Dong; Huang, Zi-Yu; Hsiai, Tzung K.; Tai, Yu-Chong | Luo, Yuan | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 69,2 | 734-745 |
| 42 | Corrigendum to a low-cost and simple-fabricated epidermal sweat patch based on "cut-and-paste" manufacture; vol. 368, 1 October 2022, 132184 (Sensors and Actuators: B. Chemical (2022) 368, (S0925400522008267), (10.1016/j.snb.2022.132184)) | Sensors and Actuators B: Chemical | 国外重要刊物 | EI收录 | Sun, Teng; Hui, Jianan; Zhou, Lin; Lin, Bo; Sun, Hebin; Bai, Yanan; Zhao, Jianlong; Mao, Hongju | Zhao, Jianlong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-12 | 373 | 10.1016/j.snb.2022.132729 |
| 43 | Bionic Magnetic Sensor Based on the MagR/Cry4 Complex-Configured Graphene Transistor with an Integrated On-Chip Gate | ACS Sensors | 国外重要刊物 | EI收录 | Cheng, Qian; Sun, Jianfei; Ge, Yuqing; Xue, Le; Mao, Hongju; Zhou, Lin; Zhao, Jianlong | Mao, Hongju ; Zhou, Lin ; Zhao, Jianlong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 8,2 | 793-802 |
| 44 | Superconducting Single-Photon Spectrometer with 3D-Printed Photonic-Crystal Filters | ACS Photonics | 国外重要刊物 | EI收录 | Xiao, You; Wei, Shuai; Xu, Jiajia; Ma, Ruoyan; Liu, Xiaoyu; Zhang, Xiaofu; Tao, Tiger H.; Li, Hao; Wang, Zengqi; You, Lixing; Wang, Zhen | Tao, Tiger H. ; Li, Hao ; You, Lixing | 信息功能材料国家重点实验室 | 中国科学院大学，传感技术国家重点实验室 | 2022-10 | 9,10 | 3450-3456 |
| 45 | Robotic Manipulation under Harsh Conditions Using Self-Healing Silk-Based Iontronics | Advanced Science | 国外重要刊物 | EI收录 | Liu, Mengwei; Zhang, Yujia; Zhang, Yanghong; Zhou, Zhitao; Qin, Nan; Tao, Tiger H. | Tao, Tiger H. | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 9,2 | 10.1002/advs.202102596 |
| 46 | A Hierarchically Encoded Data Storage Device with Controlled Transiency | Advanced Materials | 国外重要刊物 | SCI和EI同时收录 | Wei, Shuai; Jiang, Jianjuan; Sun, Long; Li, Jianxing; Tao, Tiger H.; Zhou, Zhitao | Tao, Tiger H. ; Zhou, Zhitao ; Li, Jianxing | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 34,20 | 10.1002/adma.202201035 |
| 47 | Motor-like microlasers functioning in biological fluids | Lab on a Chip | 国外重要刊物 | EI收录 | Wang, Ziyihui; Shang, Linwei; Gao, Zehang; Chan, Kok Ken; Gong, Chaoyang; Wang, Chenlu; Xu, Tianhua; Liu, Tiegen; Feng, Shilun; Chen, Yu-Cheng | Feng, Shilun ; Chen, Yu-Cheng | 天津大学 | 传感技术国家重点实验室 | 2022-08 | 22,19 | 3668-3675 |
| 48 | Stem Cell-Derived Exosomes: A New Method for Reversing Skin Aging | Tissue Engineering and Regenerative Medicine | 国外重要刊物 | SCI和EI同时收录 | Wu, Jin-Yan; Wu, Sai-Nan; Zhang, Li-Ping; Zhao, Xian-Sheng; Li, Yue; Yang, Qu-Yang; Yuan, Ruo-Yue; Liu, Jian-Lan; Mao, Hong-Ju; Zhu, Ning-Wen | Zhu, Ning-Wen ; Mao, Hong-Ju | 复旦大学 | 传感技术国家重点实验室 | 2022-10 | 19,5 | 961-968 |
| 49 | In Situ Hydrogen Temperature-Programmed Reduction Technology Based on the Integrated Microcantilever for Metal Oxide Catalyst Analysis | Analytical Chemistry | 国外重要刊物 | SCI和EI同时收录 | Li, Xinyu; Xu, Pengcheng; Zhou, Yufan; Chen, Ying; Jia, Hao; Yu, Haitao; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-11 | 94,47 | 16502-16509 |
| 50 | Thermogravimetric Analysis on a Resonant Microcantilever | Analytical Chemistry | 国外重要刊物 | SCI和EI同时收录 | Yao, Fanglan; Xu, Pengcheng; Jia, Hao; Li, Xinyu; Yu, Haitao; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-07 | 94,26 | 9380-9388 |
| 51 | Microreactor-Based TG-TEM Synchronous Analysis | Analytical Chemistry | 国外重要刊物 | SCI和EI同时收录 | Yao, Fanglan; Xu, Pengcheng; Li, Ming; Wang, Xuefeng; Jia, Hao; Chen, Ying; Li, Xinxin | Li, Xinxin | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-06 | 94,25 | 9009-9017 |
| 52 | Failure Mechanism of Palladium-Silver Nanocatalysts-Sensitized Hydrogen Microsensor Revealed by In-Situ Transmission Electron Microscopy | IEEE Symposium on Mass Storage Systems and Technologies | 国外重要刊物 | EI收录 | Li, Ming; Wang, Xueqing; Xu, Pengcheng; Chen, Ying; Li, Xinxin |  | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | / | 735-738 |
| 53 | High-sensitivity sensor array base on molecular design and machine learning for amine differentiation in exhaled vapor | Chinese Journal of Analytical Chemistry | 国外重要刊物 | EI收录 | YAN, Ming-Zhu; CHEN, Jin-Ming; WANG, Bo; XU, Wei; CAO, Hui-Min; FU, Yan-Yan; HE, Qing-Guo; CHENG, Jian-Gong | FU, Yan-Yan | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-03 | 50,3 | 10.1016/j.cjac.2022.100059 |
| 54 | Research progress of breath figure method in device application | Chinese Journal of Analytical Chemistry | 国外重要刊物 | EI收录 | YUAN, Ming-Shuai; XU, Wei; HE, Qing-Guo; CHENG, Jian-Gong; FU, Yan-Yan | CHENG, Jian-Gong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 50,1 | 44-52 |
| 55 | In Situ Turn-On Room Temperature Phosphorescence and Vapor Ultra-sensitivity at Lifetime Mode | Analytical Chemistry | 国外重要刊物 | SCI和EI同时收录 | Mei, Fen; Xu, Wei; Li, Bin; Zhu, Zhen; Fu, Yanyan; Cao, Huimin; He, Qingguo; Cheng, Jiangong | Xu, Wei ; He, Qingguo ; Cheng, Jiangong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-03 | 94,12 | 5190-5195 |
| 56 | Micro-interfaces modulation by UV—ozone substrate treatment for MPEA vapor fluorescence detection | Nano Research | 国外重要刊物 | EI收录 | Li, Bin; Li, Keke; Xu, Wei; Yan, Mingzhu; Zhao, Jianhao; Zhang, Wukun; Yuan, Mingshuai; Fu, Yanyan; He, Qingguo; Cheng, Jiangong | Fu, Yanyan ; He, Qingguo ; Cheng, Jiangong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-03 | / | 10.1007/s12274-022-4221-x |
| 57 | Tri-probe fluorescent sensor array for a wide concentration range and high precision identification of aqueous organic amines | Sensors and Actuators B: Chemical | 国外重要刊物 | EI收录 | Yan, Mingzhu; Chen, Jinming; Wang, Bo; Li, Bin; Liu, Huan; Xu, Wei; Cao, Huimin; Fu, Yanyan; He, Qingguo; Cheng, Jiangong | Fu, Yanyan | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-05 | 358 | 10.1016/j.snb.2022.131519 |
| 58 | Highly Sensitive MEMS Sensor Using Bimetallic Pd–Ag Nanoparticles as Catalyst for Acetylene Detection | Sensors | 国外重要刊物 | EI收录 | Tian, Yuan; Qiao, Hui; Yao, Tao; Gao, Shuguo; Dai, Lujian; Zhao, Jun; Chen, Ying; Xu, Pengcheng | Chen, Ying ; Xu, Pengcheng | 国网河北电力有限公司 | 传感技术国家重点实验室 | 2022-10 | 22,19 | 10.3390/s22197485 |
| 59 | Microfluidic Organ-on-a-Chip System for Disease Modeling and Drug Development | Biosensors-Basel | 国外重要刊物 | SCI收录 | Li, Zening; Hui, Jianan; Yang, Panhui; Mao, Hongju | Mao, Hongju | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-07 | 12,6 | 10.3390/bios12060370 |
| 60 | Wet-Etched Microchamber Array Digital PCR Chip for SARS-CoV-2 Virus and Ultra-Early Stage Lung Cancer Quantitative Detection | Acs Omega | 国外重要刊物 | SCI收录 | Sun, Yimeng; Huang, Yaru; Qi, Tong; Jin, Qinghui; Jia, Chunping; Zhao, Jianlong; Feng, Shilun; Liang, Lijuan | Zhao, Jianlong;Feng, Shilun;Liang, Lijuan | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-01 | 7,2 | 1819－1826 |
| 61 | Highly Sensitive MEMS Sensor Using Bimetallic Pd-Ag Nanoparticles as Catalyst for Acetylene Detection | Sensors | 国外重要刊物 | SCI收录 | Tian, Yuan; Qiao, Hui; Yao, Tao; Gao, Shuguo; Dai, Lujian; Zhao, Jun; Chen, Ying; Xu, Pengcheng | Chen, Ying;Xu, Pengcheng | 国网河北电力有限公司 | 传感技术国家重点实验室 | 2022-10 | 22,19 | 10.3390/s22197485 |
| 62 | Area-Selective, In-Situ Growth of Pd-Modified ZnO Nanowires on MEMS Hydrogen Sensors | Nanomaterials | 国外重要刊物 | SCI收录 | Hu, Jiahao; Zhang, Tao; Chen, Ying; Xu, Pengcheng; Zheng, Dan; Li, Xinxin | Zheng, Dan | 上海应用技术学院 | 传感技术国家重点实验室 | 2022-05 | 12,6 | 10.3390/nano12061001 |
| 63 | Bionic Magnetic Sensor Based on the MagR/Cry4 Complex- Configured Graphene Transistor with an Integrated On-Chip Gate | Acs Sensors | 国外重要刊物 | SCI收录 | Cheng, Qian; Sun, Jianfei; Ge, Yuqing; Xue, Le; Mao, Hongju; Zhou, Lin; Zhao, Jianlong | Mao, Hongju;Zhou, Lin;Zhao, Jianlong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-02 | 8,2 | 793－802 |
| 64 | Process Control Monitor (PCM) for Simultaneous Determination of the Piezoelectric Coefficients d(31) and d(33) of AlN and AlScN Thin Films | Micromachines | 国外重要刊物 | SCI收录 | Zhang, Hao; Wang, Yang; Wang, Lihao; Liu, Yichen; Chen, Hao; Wu, Zhenyu | Wu, Zhenyu | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-04 | 13,4 | 10.3390/mi13040581 |
| 65 | Alkaline Phosphatase Electrochemical Micro-Sensor Based on 3D Graphene Networks for the Monitoring of Osteoblast Activity | Biosensors-Basel | 国外重要刊物 | SCI收录 | Zhao, Ning; Shi, Jiaci; Li, Ming; Xu, Pengcheng; Wang, Xuefeng; Li, Xinxin | Wang, Xuefeng;Li, Xinxin | 上海交通大学 | 传感技术国家重点实验室 | 2022-06 | 12,6 | 10.3390/bios12060406 |
| 66 | Recent Advancements in Electrochemical Biosensors for Monitoring the Water Quality | Biosensors-Basel | 国外重要刊物 | SCI收录 | Hui, Yun; Huang, Zhaoling; Alahi, Md Eshrat E.; Nag, Anindya; Feng, Shilun; Mukhopadhyay, Subhas Chandra | Feng, Shilun | 中国科学院深圳先进技术研究院 | 传感技术国家重点实验室 | 2022-07 | 12,7 | 10.3390/bios12070551 |
| 67 | Identifying the grade of bladder cancer cells using microfluidic chips based on impedance | Analyst | 国外重要刊物 | SCI收录 | Fan, Weihua; Xiong, Qiao; Ge, Yuqing; Liu, Ting; Zeng, Shuxiong; Zhao, Jianlong | Ge, Yuqing;Zhao, Jianlong | 传感技术国家重点实验室 | 传感技术国家重点实验室 | 2022-04 | 147,8 | 1722－1729 |

2022年度顶级会议论文清单

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| **序号** | **论文名称** | **期刊名称** | **作者** | **第一单位** | **通讯单位** | **发表年份** | **完成情况** | **卷、期** | **备注** |
| 1 | Tiny-Sized Ultra-Sensitive Thermal Gas Flow Sensor with N+Si/P+Si Thermopile Single-Side Micromachined in A Single Non-SOI Silicon Wafer | MEMS 2022 | 黄涛，周伟，张鹏，王家畴，李昕欣 | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 55-58  doi:10.1109/MEMS51670.2022.9699716. |  |
| 2 | Wafer-Level Fabricated Double-Helix Rf-Mems Transformers with Coupling-Factor of 0.93@100Mhz For High-Efficiency Isolated Power/Signal Transmission | MEMS 2022 | 陈昌南，王念英，顾杰斌，李昕欣 | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 200-203  doi:10.1109/MEMS51670.2022.9699782 |  |
| 3 | Post-Operative Assessment of Tongue Reconstruction Using Ultra-Conformal, High Density Tongue Electrodes | MEMS 2022 | Jizhi Liang, Guo Bai, Zhaohan Chen, Feihong Xu, Ke Chen, Yi Dou, Duohong Zou, Meng Li, Zhitao Zhou\*, Tiger H. Tao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 435-437 |  |
| 4 | 3d electron-beam writing of functional nanostructures in recombinant spider silk proteins | MEMS 2022 | Nan Qin, Jianjuan Jiang and Tiger H. Tao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 1-4 |  |
| 5 | Visualized drug release silk patch using thermal nanoimprinting of pdms template | MEMS 2022 | Xiawei Yue, Tiger H. Tao\* and Jianjuan Jiang | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 21-24 |  |
| 6 | Tactile-olfactory intelligent sensing arrays for objects recognition in hazardous environments | MEMS 2022 | Mengwei Liu, Yujia Zhang, Jiachuang Wang, Nan Qin\*, and Tiger H. Tao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 83-86 |  |
| 7 | Assembly and parallel implantation of a penetrating flexible probe with thousands of microelectrodes | MEMS 2022 | Xueying Wang, Huiran Yang, Ziyi Zhu, Haoyuan Li, Chi Gu, Bohan Zhang, Shuai Wei, Hongquan Yu, Zhitao Zhou, Liuyang Sun, Tiger H. Tao\* and Xiaoling Wei\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 400-403 |  |
| 8 | Angle-independent photonic crystal full-color filter by direct laser writing | MEMS 2022 | Shuai Wei, and Tiger H. Tao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 998-1001 |  |
| 9 | Structure and Phase Evolution Characterization of Advanced Materials by Using Temperature-Programmable Resonant Microcantilever in Combination with Raman Spectroscopy (Simultaneous Tg-Raman) | MEMS 2022 | 姚方兰，贾浩，许鹏程，李昕欣 | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 188-191 | oral |
| 10 | Temperature-Programmed Resonant Microcantilever For Quantitative Evaluation of Nanomaterial Sensing Characteristics | MEMS 2022 | 李昕昱，张涛，姚方兰，陈滢，许鹏程，李昕欣 | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 122-125 | oral |
| 11 | Failure Mechanism of Palladium-Silver Nanocatalysts-Sensitized Hydrogen Microsensor Revealed by In-Situ Transmission Electron Microscopy | MEMS 2022 | 李明，王雪晴，许鹏程，陈滢，李昕欣 | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | 735-738 |  |
| 12 | An Electrowetting-Based Pre-Treatment System of Extracellular Vesicles For Rna Analysis | MEMS 2022 | Zhaoduo Tong, Chuanjie Shen, Yunxing Lu, Zhenhua Wu, Hao Yin, Shihui Qiu, Haozhi Lei, Hongju Mao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | DOI: 10.1109/MEMS51670.2022.9699784 |  |
| 13 | DIGITAL MICROFLUIDIC CHIP BASED ON DIRECT INK WRITING FOR NUCLEIC ACID MULTIPLEX PCR DETECTION | MEMS 2022 | Chuanjie Shen, Hao Yin, Zhaoduo Tong, ShihuiQiu, Yunxing Lu,Zhenhua Wu\*, Hongju Mao\* | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-01 | 独立完成 | DOI: 10.1109/MEMS51670.2022.9699738 |  |
| 14 | A Wearable Microfluidic Sensing Patch Driven by Capillary Pump for Rapid Sweat Collection and Multiplex | MicroTAS 2022 | Teng Sun†, Jianan Hui†, Lin Zhou, Hongju Mao, and Jianlong Zhao | 中国科学院上海微系统与信息技术研究所 | 中国科学院上海微系统与信息技术研究所 | 2022-06 | 独立完成 |  |  |