2024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 | Tissue/Organ Adaptable Bioelectronic Silk-Based Implants | Advanced Materials | 国外重要刊物 | SCI和EI同时收录 | Zhu, Ziyi; Yan, Zhiwen; Ni, Siyuan; Yang, Huiran; Xie, Yating; Wang, Xueying; Zou, Dujuan; Tao, Chen; Jiang, Wanqi; Jiang, Jianbo; Su, Zexi; Xia, Yuxin; Zhou, Zhitao; Sun, Liuyang; Fan, Cunyi; Tao, Tiger H.; Wei, Xiaoling; Qian, Yun; Liu, Keyin | 魏晓玲,柳克银 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 36,38 |  |
| 2 | A Flexible Temperature Sensor Integrated at Needle Tip for In Situ Acupoint Temperature Monitoring | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Song, Ci; Yu, Zheng; Feng, Weiwen; Sun, Ke; Wen, Chuanbiao; Zhang, Shengyan; Yu, Shuguang; Li, Xinxin | 李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,7 |  |
| 3 | A High-Voltage-Isolated MEMS Quad–Solenoid Transformer with Specific Insulation Barriers for Miniaturized Galvanically Isolated Power Applications | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Chen, Changnan; Pan, Pichao; Gu, Jiebin; Li, Xinxin | 李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,2 |  |
| 4 | A Novel Thin-Layer Flow Cell Sensor System Based on BDD Electrode for Heavy Metal Ion Detection | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Xiao, Danlin; Zhai, Junfeng; Shen, Zhongkai; Wang, Qiang; Wei, Shengnan; Li, Yang; Bian, Chao | 李洋,边超 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,3 |  |
| 5 | A novel viscoelastic microfluidic platform for nanoparticle/small extracellular vesicle separation through viscosity gradient-induced migration | Biomicrofluidics | 国外重要刊物 | SCI和EI同时收录 | Guo, Han; Wang, Dayin; Feng, Shilun; Zhang, Kaihuan; Luo, Yuan; Zhao, Jianlong | 罗源,赵建龙 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 18,3 |  |
| 6 | A semi-packed gas chromatographic column with staggered elliptic cylindrical post arrays | Analyst | 国外重要刊物 | SCI和EI同时收录 | Chen, Boxin; Zhu, Yuchen; Ma, Shaojie; Zhao, Bin; Feng, Fei | 冯飞 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 149,5 | 1579-1585 |
| 7 | Fluorophor Embedded MOFs Steering Gas Ultra-Recognition | ADVANCED FUNCTIONAL MATERIALS | 国外重要刊物 | SCI和EI同时收录 | Shen, Zhengqi; Li, Weina; Tang, Wenying; Jiang, Xiuyun; Qi, Kai; Liu, Huan; Xu, Wei; Xu, Wenxing; Zang, Simeng; Zhen, Kangbo; Li, Huizi; He, Qingguo; Tu, Min; Cheng, Jiangong; Fan, Zhiyong; Fu, Yanyan | 涂敏,付艳艳,程建功 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 34,32 |  |
| 8 | Nanofabrication of nanostructure lattices: from high-quality large patterns to precise hybrid units | International Journal of Extreme Manufacturing | 国外重要刊物 | SCI和EI同时收录 | Ma, Rui; Zhang, Xiaodan; Sutherland, Duncan; Bochenkov, Vladimir; Deng, Shikai | 邓诗凯 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 6,6 |  |
| 9 | A Calibration Strategy for Silicon Nanowire Field-Effect Transistor Biosensors and Its Application in Ultra-Sensitive, Label-Free Biosensing | ACS Nano | 国外重要刊物 | SCI和EI同时收录 | Chen, Dongqin; Xu, Tao; Dou, Yanzhi; Li, Tie | 李铁 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 18,33 | 21873-21885 |
| 10 | Design of a Micro-Electro Mechanical System Quad Mass Gyroscope with Compliant Mechanical Amplification | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Zhou, Jingchuan; Xu, Dacheng; Li, Xinxin; Chen, Fang | 陈方 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,1 |  |
| 11 | Direct Optical Patterning of Metal-Organic Frameworks via Photoacid-Induced Etching | ACS Nano | 国外重要刊物 | SCI和EI同时收录 | Zhu, Zhaohui; Li, Fu; Li, Jinwen; Chen, Qiran; Li, Weina; Tang, Zhenyuan; Xu, Wenxing; Shen, Wei; Tao, Tiger H.; Sun, Liuyang; Fu, Yanyan; Tu, Min | 涂敏 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 18,30 | 19628-19635 |
| 12 | Ultraflexible Neural Electrodes Enabled Synchronized Long-Term Dopamine Detection and Wideband Chronic Recording Deep in Brain | ACS Nano | 国外重要刊物 | SCI和EI同时收录 | Wang, Xueying; Xu, Mingliang; Yang, Huiran; Jiang, Wanqi; Jiang, Jianbo; Zou, Dujuan; Zhu, Ziyi; Tao, Chen; Ni, Siyuan; Zhou, Zhitao; Sun, Liuyang; Li, Meng; Nie, Yanyan; Zhao, Ying; He, Fei; Tao, Tiger H.; Wei, Xiaoling | 陶虎,魏晓玲 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 18,50 | 34272-34287 |
| 13 | Efficient Solution to PnP Problem Based on Vision Geometry | IEEE Robotics and Automation Letters | 国外重要刊物 | SCI和EI同时收录 | Sun, Qixuan; Zhang, Tianyu; Zhang, Guanghui; Wang, Kaifang; Zhu, Dongchen; Li, Jiamao; Zhang, Xiaolin | 李嘉茂 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 9,4 | 3100-3107 |
| 14 | Silk fibroin-based bioelectronic devices for high-sensitivity, stable, and prolonged in vivo recording | Biosensors and Bioelectronics | 国外重要刊物 | SCI和EI同时收录 | Yang, Huiran ; Zhu, Ziyi ; Ni, Siyuan ; Wang, Xueying ; Nie, Yanyan ; Tao, Chen ; Zou, Dujuan ; Jiang, Wanqi ; Zhao, Ying ; Zhou, Zhitao ; Sun, Liuyang; Li, Meng ; Tao, Tiger H.; Liu, Keyin ; Wei, Xiaoling | 魏晓玲,李孟,陶虎,柳克银 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 267 |  |
| 15 | All-in-one multiple extracellular vesicle miRNA detection on a miniaturized digital microfluidic workstation | BIOSENSORS & BIOELECTRONICS | 国外重要刊物 | SCI收录 | Tong, Zhaoduo; Xu, Xin; Shen, Chuanjie; Yang, Dawei; Li, Yan; Li, Qiushi; Yang, Weidong; Xu, Fangliang; Wu, Zhenhua; Zhou, Lin; Zhan, Cheng; Mao, Hongju | 周麟,毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 270 |  |
| 16 | Water-Responsive Self-Contractive Silk-Based Skin Anti-Aging Tensioners with Customizable Biofunctions | Advanced Healthcare Materials | 国外重要刊物 | SCI和EI同时收录 | Xie, Yating; Geng, Lele; Ni, Siyuan; Ni, Wei; He, Ruizhe; Liu, Tiantian; Zhang, Gai; Tao, Tiger H.; Liu, Keyin; Peng, Yinbo | 陶虎,柳克银 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 13,26 |  |
| 17 | High-Performance 3-D Silicon-Embedded Coupled Solenoid Inductors With Inserted Magnetic Core | IEEE Transactions on Electron Devices | 国外重要刊物 | SCI和EI同时收录 | Pan, Pichao; Chen, Changnan; Gu, Jiebin; Liu, Min; Li, Xinxin | 李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 71,5 | 3169-3174 |
| 18 | Piezoelectric Micromachined Ultrasonic Transducers with Micro-Hole Inter-Etch and Sealing Process on (111) Silicon Wafer | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Wang, Yunhao; Wu, Sheng; Wang, Wenjing; Wu, Tao; Li, Xinxin | 李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,4 |  |
| 19 | Pixel-Level Precision Saccade Control of Arbitrary 3D Spatial Points in Active Binocular Vision Systems | IEEE Robotics and Automation Letters | 国外重要刊物 | SCI和EI同时收录 | Wang, Kaifang; Yang, DongDong; Wang, Lei; Sun, Qixuan; Li, Jiamao; Zhang, Xiaolin | 张晓林 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  | 1-8 |
| 20 | Capacitive Bionic Magnetic Sensors Based on One-Step Biointerface Preparation | ACS Applied Materials and Interfaces | 国外重要刊物 | SCI和EI同时收录 | Cheng, Qian; Ge, Yuqing; Lin, Bo; Zhou, Lin; Mao, Hongju; Zhao, Jianlong | 周麟,毛红菊,赵建龙 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 16,6 | 6789-6798 |
| 21 | Monitoring of Sweat Ions and Physiological Parameters via a Reconfigurable Modular System | ACS Sensors | 国外重要刊物 | SCI和EI同时收录 | Lin, Bo; Sun, Teng; Hui, Jianan; Zhou, Lin; Xing, Zhe; Wu, Zhenhua; Mao, Hongju | 武振华,毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 9,3 | 1272-1279 |
| 22 | Modular Reconfigurable Approach Toward Noninvasive Wearable Body Net for Monitoring Sweat and Physiological Signals | ACS SENSORS | 国外重要刊物 | SCI和EI同时收录 | Lin, Bo; Li, Fangqi; Hui, Jianan; Xing, Zhe; Fu, Jie; Li, Shuang; Shi, Haotian; Liu, Chaoran; Mao, Hongju; Wu, Zhenhua | 毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 23 | Surface Plasmon-Driven Versatile Enhancement of Chemosensing | ACS Sensors | 国外重要刊物 | SCI和EI同时收录 | Li, Chunhui; Xu, Dinghai; Liu, Huan; Xu, Wenxing; Wang, Bo; He, Qingguo; Xu, Wei; Fu, Yanyan; Li, Huizi; Cheng, Jiangong | 徐炜,付艳艳,李卉梓,程建功 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 24 | Doping/breath figure method triggered reversible diethylchlorophosphate vapor sensing | SENSORS AND ACTUATORS B-CHEMICAL | 国外重要刊物 | SCI和EI同时收录 | Zang, Simeng; Wu, Huafeng; Li, Huizi; Xu, Wei; Shen, Zhengqi; Xu, Wenxing; Wang, Bo; He, Qingguo; Cheng, Jiangong; Fu, Yanyan | 贺庆国,程建功 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 409 |  |
| 25 | Ultraflexible PEDOT:PSS/IrOx-Modified Electrodes: Applications in Behavioral Modulation and Neural Signal Recording in Mice | Micromachines | 国外重要刊物 | SCI和EI同时收录 | Wang, Xueying; Jiang, Wanqi; Yang, Huiran; Ye, Yifei; Zhou, Zhitao; Sun, Liuyang; Nie, Yanyan; Tao, Tiger H.; Wei, Xiaoling | 魏晓玲 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 15,4 |  |
| 26 | Quantitative measurement of catalytic performance of zeolites for gas sensing using in situ temperature-programmed desorption technique | SENSORS AND ACTUATORS B-CHEMICAL | 国外重要刊物 | SCI和EI同时收录 | Li, Xinyu; Zhang, Tao; Chen, Ying; Li, Ming; Yu, Haitao; Xu, Pengcheng; Li, Xinxin | 许鹏程,李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 407 |  |
| 27 | Ultrasensitive ion liquid-CNT vdW heterostructure interface via anion-cation pair switch for SO2 detection | SENSORS AND ACTUATORS B-CHEMICAL | 国外重要刊物 | SCI和EI同时收录 | Zhu, Zhen; Liu, Huan; Luo, Ximeng; Luo, Wen; Li, Chunhui; Fu, Yanyan; Li, Huizi; Cao, Huimin; Xu, Wei; He, Qingguo; Cheng, Jiangong | 徐炜,贺庆国,程建功 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 412 |  |
| 28 | A Drosophila-inspired intelligent olfactory biomimetic sensing system for gas recognition in complex environments | MICROSYSTEMS & NANOENGINEERING | 国外重要刊物 | SCI和EI同时收录 | Yue, Xiawei; Wang, Jiachuang; Yang, Heng; Li, Zening; Zhao, Fangyu; Liu, Wenyuan; Zhang, Pingping; Chen, Hong; Jiang, Hanjun; Qin, Nan; Tao, Tiger H. | 秦楠,陶虎 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 10,1 |  |
| 29 | Braille Tactile-to-Auditory Conversion System Based on Self-Learning Flexible Tactile Sensor Array With Attention-Mechanism Model | IEEE Sensors Journal | 国外重要刊物 | SCI和EI同时收录 | Wang, Fang ; Sun, Ke ; Sun, Yi ; Yang, Heng ; Li, Xinxin | 孙毅,杨恒,李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 24,21 | 36148-36158 |
| 30 | Competing Effects of Doping and Trap Formation in Polymer Semiconductors during Plasma Treatment | IEEE Electron Device Letters | 国外重要刊物 | SCI和EI同时收录 | Yu, Hongquan ; Tang, Zhenyuan ; Tu, Min ; Wu, Yangjiang ; Zhang, Kaihuan | 张凯欢 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 31 | Determination of Crosstalk in a Dual-axis Piezoelectric MEMS Mirror and Suppression with Feedforward Algorithms | IEEE Sensors Journal | 国外重要刊物 | SCI和EI同时收录 | Li, Anna ; Huang, Hao ; Zhang, Pengcheng ; Su, Yongquan ; Zhang, Yonggui ; Wang, Lihao ; Liu, Yichen ; Wang, Yang ; Wu, Zhenyu | 汪洋,武震宇 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 32 | Overcoming bubble formation in polydimethylsiloxane-made PCR chips: mechanism and elimination with a high-pressure liquid seal | Microsystems and Nanoengineering | 国外重要刊物 | SCI和EI同时收录 | Gao, Shiyuan ; Xu, Tiegang ; Wu, Lei ; Zhu, Xiaoyue ; Wang, Xuefeng ; Jian, Xiaohong ; Li, Xinxin | 徐铁刚,吴蕾,李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 10,1 |  |
| 33 | Improved Teflon lift-off for droplet microarray generation and single-cell separation on digital microfluidic chips | Lab on a Chip | 国外重要刊物 | SCI和EI同时收录 | Shen, Chuanjie ; Tong, Zhaoduo ; Xu, Xin ; Mao, Hongju | 毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 24,20 | 4869-4878 |
| 34 | Permeability-Engineered Compartmentation System-Enabled Digital PCR (PECS-dPCR): A Digital Platform toward Multistep Biomolecular Assays | Analytical Chemistry | 国外重要刊物 | SCI收录 | Li, Jie; Du, Yanan; Shi, Qingyuan; Chen, Long; Gao, Xiuli; Liu, Yifan; Luo, Yuan | 罗源 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 35 | A-D-A Molecular Design Strategy Enabling Ultrasensitive NIR Vapor Sensing | ANALYTICAL CHEMISTRY | 国外重要刊物 | SCI收录 | Xu, Wenxing; Zhen, Kangbo; Bao, Wancheng; Shi, Zezong; Jiang, Xiuyun; Qi, Kai; Xu, Wei; Shen, Zhengqi; Li, Chunhui; Zhu, Zhaohui; Liu, Huan; Wang, Bo; He, Qingguo; Li, Huizi; Cheng, Jiangong; Ma, Xiang; Fu, Yanyan | 李卉梓,程建功,付艳艳 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 36 | Design and Wafer-Level Fabrication of Stacked-Type Transformers for High-Density Power Converters | IEEE Transactions on Power Electronics | 国外重要刊物 | SCI和EI同时收录 | Chen, Changnan; Pan, Pichao; Gu, Jiebin; Liu, Min; Li, Xinxin | 李昕欣 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 39,4 | 4503-4512 |
| 37 | A channel-homogenized micro gas chromatography column for light alkane separation with uniform HKUST-1 stationary phase | Analytica Chimica Acta | 国外重要刊物 | SCI和EI同时收录 | Ma, Shaojie; Zhu, Yuchen; Chen, Boxin; Zhao, Bin; Feng, Fei | 冯飞 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 1307, |  |
| 38 | An all-glass based micro gas chromatographic column for light hydrocarbon separation with HKUST-1 as stationary phase | Analytica Chimica Acta | 国外重要刊物 | SCI和EI同时收录 | Zhu, Yuchen; Xu, Jian; Zhang, Di; Zhang, Aodong; Chen, Boxin; Zhao, Bin; Qian, Xuhong; Cheng, Ya; Feng, Fei | 冯飞 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 1287 |  |
| 39 | Rapid automated extracellular vesicle isolation and miRNA preparation on a cost-effective digital microfluidic platform | Analytica Chimica Acta | 国外重要刊物 | SCI和EI同时收录 | Tong, Zhaoduo; Yang, Dawei; Shen, Chuanjie; Li, Chao; Xu, Xin; Li, Qiushi; Wu, Zhenhua; Ma, Hui; Chen, Fuxiang; Mao, Hongju | 毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 1296 |  |
| 40 | Research progress in fluorescent gas sensors based on MOFs | JOURNAL OF MATERIALS CHEMISTRY C | 国外重要刊物 | SCI和EI同时收录 | Dong, Ruixiao; Shen, Zhengqi; Li, Huizi; Cheng, Jiangong; Fu, Yanyan | 李卉梓,程建功,付艳艳 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 12,33 | 12692-12707 |
| 41 | Detecting EGFR gene amplification using a fluorescence in situ hybridization platform based on digital microfluidics | Talanta | 国外重要刊物 | SCI和EI同时收录 | Shen, Chuanjie; Zhan, Cheng; Tong, Zhaoduo; Yin, Hao; Hui, Jianan; Qiu, Shihui; Li, Qiushi; Xu, Xin; Ma, Hui; Wu, Zhenhua; Shi, Nan; Mao, Hongju | 毛红菊 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 269 |  |
| 42 | Mechanical robust biaxial MEMS mirror achieving > 100° optical scanning angle for LiDAR application | IEEE Sensors Journal | 国外重要刊物 | SCI和EI同时收录 | Huang, Hao; Wang, Lihao; Su, Yongquan; Wang, Yang; Liu, Yichen; Zhu, Xingwang; Zhao, Hongfeng; Xue, Wenli; Li, Anna; Zhang, Yonggui; Wu, Zhenyu | 武震宇 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 |  |  |
| 43 | MEMS-Oriented Single-Crystalline-Silicon Through-Silicon-Via Based on Filling and Oxidation of Silicon Powders | JOURNAL OF MICROELECTROMECHANICAL SYSTEMS | 国外重要刊物 | SCI收录 | Ling, Biyun; Cai, Minli; Chen, Bo; Wang, Xiaoyue; Zhou, Biqing; Xia, Yuhu; Han, Yuwei; Wu, Yaming | 凌必赟 | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 36,38 |  |

2024年度顶级会议论文清单

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| **序号** | **论文名称** | **会议名称** | **作者** | **第一单位** | **通讯单位** | **发表年份** | **完成情况** | **卷、期** | **备注** |
| 1 | A Digital PCR Chip with 3D Structure and Composite Materials | MEMS 2024 | Gao, Shiyuan; Xu, Tiegang; Wu, Lei; Zhu, Xiaoyue; Ma, Zhan; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 2 | A FRONT-SIDE FABRICATED MONOLITHIC 5000G-/100000G-MEASURED RANGE COMPOSITE SHOCK ACCELEROMETERS WITH SMALL CHIP-SIZE, HIGH RESONANT FREQUENCY AND ULTRA-HIGH ANTI-OVERLOAD CAPACITY | MEMS 2024 | Zheng, Mengyao; Bao, Haifei; Wang, Jiachou; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 3 | A Novel Microfluidic Strategy for DNA Data Random Access Via Droplet Digital PCR | MEMS 2024 | Wang, Dayin; Du, Yanan; Wang, Ning; Liu, Yifan; Luo, Yuan; Zhao, Jianlong | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 4 | A One-Step Soft Lithography Technique for Making Microfluidic Pdms Chips with Macro-Scale Structures | MEMS 2024 | Gao, Shiyuan; Xu, Tiegang; Wu, Lei; Zhu, Xiaoyue; Li, Chunyong; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 5 | An Arterial Stiffness Measuring Wristwatch with Flexible Tactile Sensing Dense-Array | MEMS 2024 | Sun, Yi; Sun, Ke; Wang, Fang; He, Yue; Yang, Heng; Zheng, Xikun; Hu, Jingqing; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 6 | An Instant Phonic Braille Recognition System Based On High-Density Flexible Tactile Sensor Array | MEMS 2024 | Wang, Fang; Yang, Heng; Sun, Ke; Sun, Yi; Zheng, Xikun; Hu, Jingqing; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 7 | Artificial Compound Eyes Visual Imaging System Using Organic Photodetector and Bionic Micro-Lens Array | MEMS 2024 | Wang, Jiachuang; Yue, Xiawei; Wei, Shuai; Zhao, Fangyu; Qin, Nan; Tao, Tiger H. | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 8 | Biaxial Lissajous Scanning Piezoelectric MEMS Mirror Based on High Fill Factor and Large Optical Aperture | MEMS 2024 | Huang, Hao; Wang, Lihao; Wang, Yang; Liu, Yichen; Su, Yongquan; Zhu, Weihong; Zhang, Yonggui; Wu, Zhenyu | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 9 | DEFORMING SINGLE SOFT MICROPARTICLES IN LIQUID USING MEMBRANE RESONATORS | MEMS 2024 | Jia, Hao; Zhang, Haoran; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 10 | Electronic Nose Based on the Integration of MEMS Multi-Sensor and CMOS Circuit | MEMS 2024 | Yue, Xiawei; Wang, Jiachuang; Zhao, Fangyu; Zhang, Pingping; Yang, Heng; Tao, Tiger H.; Qin, Nan | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 11 | High-Pressure Liquid Environment Thin-Pdms-Film Digital PCR | MEMS 2024 | Gao, Shiyuan; Xu, Tiegang; Wu, Lei; Zhu, Xiaoyue; Jiang, Lihong; Wang, Quan; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 12 | HIGH-SENSITIVE HYDROGEN DETECTION IN OXYGEN-FREE ENVIRONMENT WITH MEMS DIFFERENTIAL THERMOPILES | MEMS 2024 | Li, Zechun; Li, Ming; Jia, Hao; Zhang, Haozhi; Xu, Pengcheng; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 13 | High-Voltage-Isolated Mems Quad-Solenoid Transformers with S-Shape SIO2Isolation Barriers for Compact Galvanically-Isolated Gate Driver Applications | MEMS 2024 | Chen, Changnan; Pan, Pichao; Gu, Jiebin; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 14 | Implantable Electrode Based on Pre-Stretched Silk Film for in Vivo Application | MEMS 2024 | Zhu, Ziyi; Yan, Zhiwen; Yang, Huiran; Wang, Xueying; Ni, Siyuan; Zou, Dujuan; Jiang, Wanqi; Tao, Chen; Jiang, Jianbo; Zhou, Zhitao; Sun, Liuyang; Liu, Keyin; Tao, Tiger H.; Wei, Xiaoling | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 15 | INTEGRATED RESONANT CANTILEVER WITH DUAL THERMOANALYTICAL FUNCTIONS OF THERMOGRAVIMETRIC ANALYSIS AND DIFFERENTIAL THERMAL ANALYSIS | MEMS 2024 | Yang, Yuhang; Jia, Hao; Cao, Zhi; Zhang, Haozhi; Xu, Pengcheng; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 16 | Miniaturized Diamond Quantum Magnetometer with Integrated Laser Source and All Electrical I/OS | MEMS 2024 | Xie, Fei; Chen, Zhichao; Peng, Xiao; Liu, Qihui; Li, Lingyun; Wang, Nan; Hu, Yuqiang; Liu, Yichen; Wang, Lihao; Chen, Hao; Cheng, Jiangong; Wu, Zhenyu | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 17 | Oriented Crystallization Silk-Based Electronic Interface Towards Chronical Recording | MEMS 2024 | Yang, Huiran; Zhu, Ziyi; Wang, Xueying; Zou, Dujuan; Jiang, Wanqi; Zhou, Zhitao; Sun, Liuyang; Liu, Keyin; Tao, Tiger H.; Wei, Xiaoling | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 18 | Quantitative Measurements of Catalytic Activity of Single-Atom and Nanoparticle Palladium Catalysts for Sensitive Detection of Methane Using Cantilever-Based Temperature-Programmed Reduction Technique | MEMS 2024 | Yang, Qiaoyuan; Li, Ming; Zheng, Yanlong; Li, Xinyu; Chen, Ying; Li, Xinxin; Xu, Pengcheng | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 19 | Tea Wing Bug Inspired Flexible Deep Brain Probe Minimally Invasive Implantation | MEMS 2024 | Zou, Dujuan; Wang, Xueying; Yang, Huiran; Jiang, Wanqi; Zhu, Ziyi; Tao, Chen; Zhou, Zhitao; Sun, Liuyang; Tao, Tiger H.; Wei, Xiaoling | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 20 | THERMOGRAVIMETRIC ANALYSIS ABOVE 200°C/MIN USING INTEGRATED RESONANT MICROCANTILEVERS | MEMS 2024 | Jia, Hao; Cao, Zhi; Yang, Yuhang; Zheng, Dan; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 21 | Through-Silicon Isolation Based on Dry Filling and Reflow of Micron Glass Powders | MEMS 2024 | Zhou, Wenduan; Ling, Biyun; Chen, Dong; Xu, Qiao; Xia, Yuhu; Cai, Minli; Wu, Yaming | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 22 | Ultra-Flexible Multichannel Neural Microelectrodes Modified by PEDOT:PSS/IrOx for Enhanced Sensing and Localized Stimulation | MEMS 2024 | Jiang, Wanqi; Wang, Xueying; Yang, Huiran; Zou, Dujuan; Tao, Chen; Zhu, Ziyi; Jiang, Jianbo; Zhou, Zhitao; Sun, Liuyang; Tao, Tiger H.; Wei, Xiaoling | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 23 | Application of Low Temperature Solder Ball Sn-58Bi in Micro-Mirror Arrays Stacked Packaging | ICEPT 2024 | Chen, Dalong ; Xiao, Kelaiti ; Xu, Gaowei ; Cai, Minli ; Wu, Yaming | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 24 | Integrated magneto-electrochemical sensing arrays for multi-parametric screening of Alzheimer's disease related biomarkers | NEMS 2024 | Wang, Jieyu ; Hui, Jianan ; Zhao, Pengcheng ; Lin, Bo ; Liu, Huiying ; Ma, Guowu ; Mao, Hongju | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 25 | Power-Compensated Single-Crystal Silicon Thermopiles for Differential Scanning Calorimetry (DSC) | MEMS 2024 | Jia, Hao ; Cao, Zhi ; Li, Zechun ; Zhang, Haozhi ; Xu, Pengcheng ; Li, Xinxin | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |
| 26 | Investigation of improving the uniformity of Cu dishing depth in Cu-SiO2 chemical mechanical polishing | ICEPT 2024 | Liu, Yujia; Xiao, Kelaiti; Zhang, Kai; Zhang, Jin; Liu, Daoxiang | 传感器技术全国重点实验室 | 传感器技术全国重点实验室 | 2024 | 独立完成 |  |  |