

实时单细胞多模态分析仪 citation

| 应用领域 | 序号 | 文章名称   | 作者单位       | 杂志   |
|------|----|--|------------|--|
| 肿瘤   | 1  | Bifunctiona lelectro-optical nanoprobe<br>to real-time detect local biochemical<br>Processes in single cells<br>光电纳米探针实时探测单细胞内局<br>部生化过程   | 西南大<br>学   | <i>Biosensors<br/>and<br/>Bioelectronics</i> |
|      | 2  | Optical Detection of Single Cell Lactate<br>Release for Cancer Metabolic Analysis<br>光学检测单个细胞的乳酸释放水平：<br>诊断早期癌症  | 西南大<br>学   | <i>Analytical<br/>Chemistry</i>              |
|      | 3  | Single living cell detection of<br>Telomerase over-expression for cancer<br>Detection by an optical fiber<br>nanobiosensor<br>光学探测单个活体癌细胞的端粒酶<br>表达水平：癌变分析                             | 南洋理工<br>大学 | <i>Biosensorsand<br/>Bioelectronics</i>      |
|      | 4  | DNA-Templated Biomimetic Enzyme<br>Sheets on Carbon Nanotubes to<br>Sensitively In Situ Detect Superoxide<br>Anions Released from Cells<br>DNA 模板仿生酶片修饰的碳纳米管<br>原位灵敏检测细胞释放的超氧化物<br>阴离子 | 西南大<br>学   | <i>Advanced<br/>Functional<br/>Materials</i> |

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|      | 5 | Monitoring casein kinase II at Subcellular level via bio-bar-code-based electrochemiluminescence biosensing method<br>通过基于生物条码的电化学发光生物传感法在亚细胞水平监测酪蛋白激酶 II                            | 陕西师范大学 | <i>Chinese chemical Letters</i> |
| 新药研究 | 6 | Anticancer Efficacy and Subcellular Site Of Action Investigated by Real-Time Monitoring of Cellular Responses to Localized Drug Delivery in Single Cells<br>细胞内亚细胞水平局部给药的实时检测：研究抗癌疗效 | 南洋理工大学 | <i>Small</i>                    |
|      | 7 | pH Sensitive tumor-targeted Hyperbranched system based on Glycogen nanoparticles for liver cancer therapy<br>基于糖原纳米颗粒的 pH 敏感肿瘤靶向超支化系统用于肝癌治疗  | 江南大学   | <i>Applied Materials today</i>  |
| 神经   | 8 | Molecular profiling of single axons and Dendrites in living neurons using  | 南京大学   | <i>Analyst</i>                  |

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|      |    | <p>Electrosyringe-assisted electrospray</p> <p>Mass spectrometry</p> <p>使用电注射器辅助电喷雾质谱法对活神经元中的单轴突和树突进行分子谱分析</p>  |         |                                    |
|      | 9  | <p>Development of Au Disk Nanoelectrode</p> <p>Down to 3nm in Radius for Detection of Dopamine Release from a Single Cell</p> <p>检测单细胞中多巴胺释放的半径低至 3nm 的 Au 盘纳米电极的研制</p> | 华东师范大学  | <p><i>Analytical Chemistry</i></p> |
| 免疫   | 10 | <p>Nanokit for single-cell electrochemical analyses</p> <p>纳米试剂盒用于单细胞电化学分析</p>  | 南京大学    | <p><i>PNAS</i></p>                 |
|      | 11 | <p>Electrochemical Nanoaptasensor for Continuous Monitoring of ATP Fluctuation at Subcellular Level</p> <p>电化学纳米传感器用于亚细胞水平 ATP 波动的连续监测</p>                              | 陕西师范大学  | <p><i>Analytical Chemistry</i></p> |
| 活体组织 | 12 | <p>In vivo Monitoring of Serotonin by Nanomaterial Functionalized Acupuncture Needle</p> <p>纳米材料修饰的针灸针体内监测血</p>   | 湖北中医药大学 | <p><i>ScientificReports</i></p>    |

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|      |    | 清素 (5-羟色胺)  |          |  |
|      | 13 | <p>A sensitive acupuncture needle microsensor for real-time monitoring of nitric oxide in acupoints of rats</p> <p>灵敏的针灸针微传感器实时监测大鼠穴位中一氧化氮</p>  | 湖北中医药大学  | <i>ScientificReports</i>                     |
|      | 14 | <p>Preparation of Graphene-Modified Acupuncture Needle and Its Application in Detecting Neurotransmitters</p> <p>石墨烯修饰针刺针的制备及其在神经递质检测中的应用</p>   | 湖北中医药大学  | <i>ScientificReports</i>                     |
|      | 15 | <p>Electrochemically Probing Dynamics of Ascorbate during Cytotoxic Edema in Living Rat Brain</p> <p>活大鼠脑细胞毒性水肿过程中抗坏血酸的电化学探测动力学</p>   | 中科院化学研究所 | <i>Journalofthe American ChemicalSociety</i> |
| 纳米材料 | 16 | <p>Photoactivated Specific mRNA Detection in Single Living Cells by Coupling “Signal-on” Fluorescence and “Signal-off” Electrochemical Signals</p> <p>通过耦合“信号开启”荧光和“信号关闭”电化学信号在单个活细胞中进行</p> | 中国地质大学   | <i>NanoLetters</i>                           |

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|         |    | 光活化特异性 mRNA 检测  |        |                             |
|         | 17 | <p>Photoactivated Biosensing Process for Dictated ATP Detection in Single Living Cells</p> <p>用于单个活细胞中 ATP 检测的光激活生物传感过程</p>                         | 中国地质大学 | <i>Analytical Chemistry</i> |
| 细胞提取与检测 | 18 | <p>Direct electrochemical observation of Glucosidase activity in isolated single Lysosomes from a living cell</p> <p>直接电化学检测活细胞中分离的单个溶酶体葡萄糖苷酶活性</p> | 南京大学   | <i>PNAS</i>                 |
|         | 19 | <p>Fluorescent Polymerase Chain Reaction Nanokit for the Detection of DNA Sequence in Single Living Cells</p> <p>检测单个活细胞 DNA 序列的荧光聚合酶链反应纳米试剂盒</p>   | 南京大学   | <i>Analytical Chemistry</i> |
| 生殖      | 20 | <p>Melatonin prevents postovulatory Oocyte aging and promotes Subsequent embryonic development in the pig</p> <p>褪黑素预防猪排卵后卵母细胞老化并促进胚胎发育</p>         | 中国农业大学 | <i>AGING-US</i>             |
| 藻类      | 21 | Detection of microalgae single-cell   | 浙江大学   | <i>Sensors and</i>          |

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|  |  | <p>Antioxidant and electrochemical</p> <p>Potentials by gold microelectrode and</p> <p>Ramanmicro-spectroscopy combined</p> <p>with chemometrics</p> <p>金微电极和拉曼光谱结合化学计量学检测微藻单细胞抗氧化剂和电化学电位</p> |  | <p><i>ActuatorsB:</i></p> <p><i>Chemical</i></p> |
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