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## 杨海英

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杨海英

副教授

博士

电 话:

传 真:

电子信箱: haiyingyang79@hotmail.com

出生年月:

研究方向: 电化学生物传感器

毕业学校: 陕西师范大学

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|---|------|
|   | 职 务: |
| <b>研究工作简介</b>   |      |
| <p>2000年、2006年和2012年毕业于大同大学、西北大学和陕西师范大学，分别获得学士、硕士和博士学位，2006年7月进校任教，2016年10月至2017年10月在美国牛津大学Richard G Compton研究组进行访学研究，目前主要从事电化学和电化学发光生物传感分析的研究工作。</p> <p>先后主持山西省教育厅科技创新项目1项，参与国家自然科学基金2项。在Chemistry-A European Journal, Biosensor and Bioelectronics, Sensors and Actuator B, Physical Chemistry Chemical Physics等国际SCI源期刊上发表学术论文10余篇。承担应用化学系本科生《分析化学》、《分析化学实验》和《仪器分析及实验》等专业课程的主讲任务。</p>  |      |
| <b>代表性成果</b>  |      |
| <ol style="list-style-type: none"> <li>1. <b>Haiying Yang</b>; Xiuting Li; Christopher Batchelor-McAuley; Stanislav Sokolov; Richard Compton*. Nafion particles doped with methyl viologen: electrochemistry. Physical Chemistry Chemical Physics, 2018, 20, 682-689.</li> <li>2. <b>Haiying Yang</b>, Xiuting Li, Christopher Batchelor-McAuley, Stanislav V. Sokolov, Enno Käthelhön, Richard G. Compton*. Immobilised electrocatalysts: Nafion nanoparticles doped with ruthenium (II) tris(2,2'-bipyridyl), Chemistry-A European Journal, 2017, 23, 17605-17611.</li> <li>3. Qiaojuan Gong*, Yongdong Wang, <b>Haiying Yang*</b>, A sensitive impedimetric DNA biosensor for the determination of the HIV gene based on graphene-Nafion composite film. Biosensors and Bioelectronics, 2017, 89, 565-569.</li> <li>4. <b>Haiying Yang*</b>, Qian Yang, Zhejian Li, Yingxin Du, Chengxiao Zhang*. Sensitive electrogenerated chemiluminescence aptasensor for the detection of Ramos cells incorporating polyamidoamine dendrimers and oligonucleotide. Sensors and Actuators B: Chemical, 2016, 236, 712-718.</li> <li>5. <b>Haiying Yang</b>, Huafeng Zhou, Haoyong Hao, Qiaojuan Gong, Kai Nie. Detection of Escherichia coli with a label-free impedimetric biosensor based on lectin functionalized mixed self-assembled monolayer. Sensors and Actuators B: Chemical, 2016, 229, 297-304.</li> <li>6. <b>Haiying Yang</b>, Zhejian Li, Meng Shan, Congcong Li, Honglan Qi, Qiang Gao, Jinyi Wang, Chengxiao Zhang. Electrogenerated chemiluminescence biosensing for the detection of prostate PC-3 cancer cells incorporating antibody as capture probe and ruthenium complex-labelled wheat germ agglutinin as signal probe. Analytical Chimica Acta, 2015, 863,1-8.</li> <li>7. Qiaojuan Gong, <b>Haiying Yang</b>, Yanyun Dong, Wenchan Zhang. A sensitive impedimetric DNA</li> </ol> |      |

biosensor for the determination of the HIV gene based on electrochemically reduced graphene oxide. Analytical Methods, 2015, 7, 2554-2562.

8. **Haiying Yang**, Zhejian Li, Xiaomin Wei, Ru Huang, Honglan Qi\*, Qiang Gao, Chenzhong Li, Chengxiao Zhang\*. Detection and discrimination of alpha-fetoprotein with a label-free electrochemical impedance spectroscopy biosensor array based on lectin functionalized carbon nanotubes. Talanta, 2013, 111, 62-68.

9. **Haiying Yang**, Yaqin Wang, Honglan Qi, Qiang Gao, Chengxiao Zhang. Electrogenerated chemiluminescence biosensor incorporating ruthenium complex-labelled Concanavalin A as a probe for the detection of Escherichia coli, Biosensors and Bioelectronics, 2012, 35, 376-381.

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地址：山西省运城市复旦西街1155号 | 电话：0359-2513059 | 邮编：044000