



## 师资队伍

## 教师名录

教授兼博士生导师  
教授、研究员  
副教授、副研究员  
讲师、助理研究员  
实验中心教职工  
学院机关教职工

## 人才招聘

审核评估

人才引进

就业信息

杰出校友

## 副教授、副研究

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## 崔接武

点击率: 作者: 来源: 时间: 2017-12-06

## 教师简介:



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## 个人简历:

2004/09-2008/06 合肥工业大学 材料科学与工程学院 工学学士  
2008/09-2013/06 合肥工业大学 材料科学与工程学院 工学博士  
2011/11-2013/05 澳大利亚莫纳什大学公派留学  
2013/07-2015/12 合肥工业大学 材料科学与工程学院 金属材料工程系 讲师  
2015/12- 合肥工业大学 材料科学与工程学院 金属材料工程系 副教授

## 主要研究领域、方向:

1、教学工作 承担本科生课程:  
(1)《材料科学基础》  
(2)《工程材料及热处理》  
2、研究领域、方向:  
纳米材料与生物传感器、功能纳米材料及器件

## 研究成果(代表性成果):

专利  
[1]授权: 基于流动注射分析技术的葡萄糖浓度检测装置及检测方法, 吴玉程, 崔接武, 张行林, 塞缪尔·爱德华·徐光青, 惠佳宁. 申请号: 201310311579.9, 专利号: ZL 201310311579.9  
[2]多孔NiO/CeO<sub>2</sub>杂化纳米片阵列及其制备方法和用途, 崔接武, 吴玉程, 张信义, 王岩, 张勇. 申请号: 201510095023.X  
[3]氧化镍/氧化钛纳米复合材料及其制备方法和储能应用, 吴玉程, 崔丽华, 王岩, 秦永强, 崔接武, 舒霞, 张勇. 申请号: 201510853815.9  
[4]一种用于超级电容器的Mn<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub>纳米管复合材料及其制备方法. 王岩, 张剑芳, 吴玉程, 舒霞, 崔接武, 周琪, 张勇. 申请号: 201510641372.7

## 目前承担科研项目:

主持的科研项目:  
1.国家自然科学基金青年基金, 石墨烯/CeO<sub>2</sub>纳米阵列复合体系的构筑及具在电化学生物传感中的应用, 2015.01-2017.12.  
2.安徽省自然科学基金青年基金, 基于有序多孔 Au 纳米线阵列的电化学生物传感器的构筑及性能研究, 2014.07-2016.06.  
参与的科研项目:  
1.国家自然科学基金“纳米制造的基础研究”重大研究计划培育项目, 基于改性TiO<sub>2</sub>纳米管阵列的传感器件的构造研究, 2011.01-2013.12.  
2.国家自然科学基金青年基金, 基于一维TiO<sub>2</sub>复合纳米阵列的生物传感器构造及机制研究, 2012.01-2014.12.  
3.安徽省国际科技合作计划项目, 先进纳米材料在水污染的检测与治理中的应用研究, 2010.01-2012.12

## 获奖情况:

2015年合肥工业大学青年教师讲课比赛三等奖

## 著作论文(代表作):

[1]Jiewu Cui\*, Jinbao Luo, Bangguo Peng, Xinyi Zhang, Yong Zhang, Yan Wang, Yongqiang Qin, Hongmei Zheng, Xia Shu and Yucheng Wu\*. Synthesis of Porous NiO/CeO<sub>2</sub> Hybrid Nanoflake Arrays as Platform for Electrochemical Biosensing. Nanoscale, 2016, 8(2), 770-774.  
[2]Yongqiang Qin, Jiewu Cui, Yong Zhang, Yan Wang, Xinyi Zhang, Hongmei Zheng, Xia Shu, Bowen Fu, Yucheng Wu\*. Integration of Microfluidic Injection Analysis with Carbon Nanomaterials/gold Nanowire Arrays-based Biosensors for Glucose Detection. Science Bulletin, 2016, 61(6), 473-480.  
[3]L.H. Cui, Y. Wang, X. Shu, J. F. Zhang, C. P. Yu, J. W. Cui, H. M. Zheng, Y. Zhang, Y. C. Wu. Supercapacitive Performance of Hydrogenated TiO<sub>2</sub> Nanotube Arrays Decorated with Nickel Oxide Nanoparticles. RSC Advances, 2016, 6(15), 12185-12192.  
[4]Wentao Qi, Yun Gan, Yong Zhang, Jiewu Cui, Yan Wang, Xia Shu, Yucheng Wu. In-situ Constructing Hybrid Oxygen Electrode of Porous Co<sub>3</sub>O<sub>4</sub> Nanowire Array on La<sub>0.8</sub>Sr<sub>0.2</sub>MnO<sub>3-δ</sub> for Steam Electrolysis. International

- Journal of Hydrogen Energy, 2016, 41(12), 5428-5436.
- [5]Jiewu Cui, Xinyi Zhang, Liang Tong, Jinbao Luo, Yan Wang, Yong Zhang, Kui Xie and Yucheng Wu. A Facile Synthesis of Mesoporous Co<sub>3</sub>O<sub>4</sub>/CeO<sub>2</sub> Hybrid Nanowire Arrays for High Performance Supercapacitors. Journal of Materials Chemistry A, 2015, 3, 10425-10431.
- [6]Gongbo Cao, Yong Zhang, Wenyuan Yan, Yan Wang, Jiewu Cui, Jiaqin Liu, Qi Zhou, Ying Chen, Ting Xie, Yucheng Wu. Facile Synthesis of Hybrid Sodium Tungsten Oxide@carbon Nanocables on Reduced Graphene Oxide Nanosheets. Materials Letters, 2015, 161, 259-262.
- [7]Edward Ogabiela, Samuel B. Adeloju, Jiewu Cui, Yucheng Wu, Wei Chen. A Novel Ultrasensitive Phosphate Amperometric Nanobiosensor Based on the Integration of Pyruvate Oxidase with Highly Ordered Gold Nanowires Array. Biosensors and Bioelectronics, 2015, 71, 278-285.
- [8]Jiewu Cui, Edward E. Ogabiela, Jianing Hui, Yan Wang, Yong Zhang, Liang Tong, Jianfang Zhang, Samuel B. Adeloju, Xinyi Zhang and Yucheng Wu. Electrochemical Biosensor Based on Pt/Au Alloy Nanowire Arrays for Phosphate Detection. Journal of The Electrochemical Society, 2015, 162, B62-B67.
- [9]Jiewu Cui, Samuel B. Adeloju, Yucheng Wu. Integration of a Highly Ordered Gold Nanowires Array with Glucose Oxidase for Ultra-sensitive Glucose Detection. Analytica Chimica Acta, 2014, 809,134-140.
- [10]崔接武, 王岩, 张勇, 舒霞, 吴玉程. 基于一维纳米阵列的电化学传感器研究进展. 功能材料与器件学报.2014,20,179-193.
- [11]Jianing Hui, Jiewu Cui, Yan Wang, Yong Zhang, Jinkun Liang, Xinyi Zhang, Wei Chen, Edward E. Ogabiela, Samuel B. Adelojud and Yucheng Wu. A High Throughput Glucose Biosensor Based on FIA and Gold Nanowire Arrays at Low Potential. Journal of The Electrochemical Society, 2014, 161, B291-B296.
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- [13]Qingqing Qin, Kui Xie, Haoshan Wei, Wentao Qi, Jiewu Cui and Yucheng Wu. Demonstration of Efficient Electrochemical Biogas Reforming in a Solid Oxide Electrolyser with Titanate Cathode. RSC Advances, 2014, 4, 38474-38483.
- [14]Haoshan Wei, Kui Xie, Jun Zhang, Yong Zhang, Yan Wang, Yongqiang Qin, Jiewu Cui, Jian Yan and Yucheng Wu. In situ Growth of Ni<sub>x</sub>Cu<sub>1-x</sub> Alloy Nanocatalysts on Redox-reversible Rutile (Nb,Ti)O<sub>4</sub> Towards High-Temperature Carbon Dioxide Electrolysis. Scientific Reports,2014, 4, 5156(1-11).
- [15]Jianfang Zhang, Yan Wang, Cuiqing Yu, Xia Shu, Lai Jiang, Jiewu Cui, Zhong Chen, Ting Xie and Yucheng Wu. Enhanced Visible-light Photoelectrochemical Behaviour of Heterojunction Composite with Cu<sub>2</sub>O Nanoparticles-decorated TiO<sub>2</sub> Nanotube Arrays. New Journal of Chemistry, 2014, 38, 4975-4984.
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- [23]Pengjie Zhang, Guangqing Xu, Jun Lv, Jiewu Cui, Zhixiang Zheng, Yucheng Wu. Fabrication of Au Nanowire Array for Anodic Stripping Voltammetry Determination of Trace Pb<sup>2+</sup> Ions. Journal of Electroanalytical Chemistry, 2012, 685, 91-96.