

## 个人简介:

姓名: 余建国                      出生年月: 1977.12  
技术职务: 副教授              专业及学历: 物理化学/博士研究生  
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## 工作及教育经历:

2006/07-至今, 天津工业大学教师  
2003/09-2006/06, 吉林大学 博士  
2001/09-2003/06, 吉林大学 硕士  
1997/09-2000/06, 吉林大学 本科

## 研究方向:

1. 电催化(醇氧化、产氢等)
2. 绿色化学电源

## 主持及参加的科研项目:

1. 天津市科委基金项目, 15JCQNJC05700, 生物质基纳米炭黑的微观结构调控及性能研究, 6万元
2. 天津市科委基金项目, 14JCYBJC17500, 碳基纳米复合材料的原位法制备、微观结构调控和储能性能, 10万元
3. 国家自然科学基金项目, 21271138, 钙钛矿复合氧化物中空微纳颗粒的控制合成与气敏性能研究, 75万元
4. 天津市自然科学基金重点项目, 10JCZDJC21500, 具有光致发光性能的钙钛矿结构中空纳米颗粒, 20万元, 已结题

## 代表性学术论文:

- (1) **Jianguo Yu\***, Tangming Dai, Yuechao Cao, Yuning Qu, Yao Li, Juan Li, Yongnan Zhao\*, Haiyan Gao, Controllable fabrication of Pt nanocatalyst supported on N-doped carbon containing nickel nanoparticles for ethanol oxidation, **J. Colloid Interf. Sci.**, 2018, 524: 360-367.
- (2) Hui Wang, Yuechao Cao, Juan Li, **Jianguo Yu\***, Haiyan Gao, Yongnan Zhao, Youn-Uk Kwon, Guodong Li, Preparation of Ni/NiO-C catalyst with NiO crystal: catalytic performance and

mechanism for ethanol oxidation in alkaline solution, **Ionics**, 2018, 24: 2745-2752.

(3) **Jianguo Yu\***, Miaomiao Jia, Tangming Dai, Famei Qin, Yongnan Zhao, Nitrogen-doped graphene supporting PtSn nanoparticles with a tunable microstructure to enhance the activity and stability for ethanol oxidation, **J. Solid State Electrochem.**, 2017, 21: 967-974.

(4) Wenjuan Shi, Qian Wang, Famei Qin, **Jianguo Yu\***, Miaomiao Jia, Haiyan Gao, Yabin Zhang, Yongnan Zhao\*, Guodong Li, N-doped carbon encapsulated nickel nanoparticles: rational fabrication and ultra-high performance for ethanol oxidation, **Electrochim. Acta**, 2017, 232: 332-338.

(5) Wenjuan Shi, Haiyan Gao, **Jianguo Yu\***, Miaomiao Jia, Tangming Dai, Yongnan Zhao\*, Jingjing Xu, Guodong Li, One-step synthesis of N-doped activated carbon with controllable Ni nanorods for ethanol oxidation, **Electrochim. Acta**, 2016, 220: 486-492.

(6) Yisong Zou, Miaomiao Jia, Junqin Fan, Famei Qin, **Jianguo Yu\***, Yongnan Zhao, Silver Nanoparticle Impregnated Porous Carbon as a Nonenzymatic Hydrogen Peroxide Sensor, **Int. J. Electrochem. Sci.**, 2016, 11: 5781-5791.

(7) Yanqin Zhang, Miaomiao Jia, , Junqin Fan, Lili Wang, **Jianguo Yu\***, Yisong Zou, Yongnan Zhao, A Tunable Hierarchical Porous Carbon from Starch Pretreated by Calcium Acetate for High Performance Supercapacitors, **J. Solid State Electrochem.**, 2016, 20: 733-741.

(8) Yanqin Zhang, Miaomiao Jia, Haiyan Gao, **Jianguo Yu\***, Lili Wang, Yisong Zou, Famei Qin, Yongnan Zhao\*, Porous hollow carbon spheres: facile fabrication and excellent supercapacitive properties, **Electrochim. Acta**, 2015, 184: 32-39.

## 代表性专利:

(1) 赵永男, 孟令波, **余建国**, 一种用于电沉积法镀 MOF 膜的组合式装置, 2014.10.12-2014.7.22, 中国, CN201410350899.X。

(2) **余建国**, 范俊琴, 赵永男, 杨红, 陈坤华, 一种纳米银掺杂的碳糊电极电化学检测抗坏血酸的方法, 2014.4.23-2013.12.18, 中国, CN201310710691.X。