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2015-3-31



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学习工作经历

2001/09-2006/06:中国科学院大连化学物理研究所, 博士生, 导师: 包信和
 1991/09-1994/04:大连铁道学院, 硕士生, 导师: 吴杜虎、关亚风(化物所)
 1987/09-1991/07:大连铁道学院, 应用化学系, 学士
 2014/06-2014/09:英国the Imperial College, 访问学者, 导师: Prof. Kang Li
 2011/07-2011/08:德国Fritz-Haber-Institut, 访问学者, 导师: Dr.Dangsheng Su
 2007/07-今, 大连交通大学, 环境与化学工程学院, 教授
 2002/07-2007/06,大连交通大学, 环境与化学工程学院, 副教授
 2000/04-2000/10: Penn. State Univ.访问学者, 导师James Ultman
 1996/06-2002/06,大连铁道学院, 应用化学系, 讲师
 1994/04-1996/05,大连铁道学院, 应用化学系, 助教

承担项目情况

- (1) Nafion晶须支撑铂纳米线催化剂有序PEM燃料电池膜电极, 21176035, 国家自然科学基金, 20111201-20151231, 65万, 主持
- (2) 基于贵金属替代的新型动力燃料电池关键技术和理论基础研究, 国家973重大项目, 课题四, 有序化膜电极微-纳结构构建与界面极化损失研究, 2012CB215504, 20120101-20161231, 130万, 主持
- (3) 辽宁省高等学校优秀科技人才支持计划, LB2013018, 2013-2016, 10万, 主持
- (4) 辽宁省计划, 超级电容器材料提高燃料电池响应速率的研究 (2009222008) 20100101-20111231, 20万, 主持
- (5) 掺杂介孔炭/炭纳米管修饰石墨毡与氧化还原电对耦合超级电容器研究, 国家自然科学基金, 20376034, 20130801-20171231, 83万, 2/4
- (6) 高效新型化学储能电池技术, 国家863高技术项目, 2012AA052002, 20120101 - 20141231, 180万, 3/12
- (7) 质子交换膜燃料电池废旧膜电极回收再生循环利用技术研究, 辽宁省教育厅科学研究项目, L2010076, 20100521-20121231, 2万, 3/6
- (8) 动力汽车用锂离子电池阳极材料产业化研究, 大连市经信委, 20090101 - 20110101, 20万, 主持
- (9) 薄型金属双极板质子交换膜燃料电池堆技术, 国家863高技术项目, 2009AA05Z120, 20080101 - 20110101, 325万, 3/15
- (10) 国产质子交换膜燃料电池堆关键材料的研制开发--金属双极板, 国家863高技术项目, 2008AA11A105-4, 20080101-2010101, 155万, 4/10

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30. 赵红, 姜志权, 张镇, 翟润山, 包信和* Ag粒子在PAAO上的聚合研究, *催化学报*, 27(5): 381-385 (2006) SCI期刊论文
31. Hong ZHAO*, Chong, Zhang, Research on the Green Biocide EGD's Control of Mussel Pollution, *J. Wuhan University of Technology*. Vol. 27(4): 26-29 (2005) SCI期刊论文
32. Jiping Ge, Hong ZHAO, Zaiqi Yao, Strength of deformation-processed Cu-Fe in-situ composites, *Transactions of Nonferrous Metals Society of China*. Vol. 15(3), 553-559 (2005) SCI期刊论文
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- 34.Hong ZHAO, Xu Suohong, Zhong Junbo.Xinhe BAO*Kinetic study on the photo-catalytic degradation ofpyridine in TiO2 suspension systems.Catalysis Today.Vol. 95-95C, 857-861 (2004) SCI期刊论文
- 35.Zhiquan Jiang, Weixin Huang, Jian Jiao,Hong ZHAO,Dali Tan, Runsheng Zhai, Xinhe Bao*, Adsorption and decomposition of Mo(CO)6 on thin Al2O3 films:fabrication of metallic molybdenum model catalyst.Applied Surface Science.Vol. 229. 43-50 (2004)SCI期刊论文
- 36.Hong ZHAO, Guan yafeng*, Yu lihua, Zhang jian..Characteristics of TGPGC on short micro-packed capillary column.Analytical Science,Vol.18 (1), 93-95 (2002)SCI期刊论文

专利情况

- 1、徐洪峰, 吴晓欣, 卢璐, 赵红, 全钒液流电池正极石墨毡电极改性处理方法, 2014. 6. 25-2034. 4. 11, 辽宁, CN201410146682. 7。专利
- 2、赵红, 李明露, 丁敏, 韩苗, 高攀, 刘博文, 一步实现碳包覆和Na+掺杂制备LiFePO4正极材料的方法, 2014. 5. 14-2034. 2. 28, 辽宁, CN201410072082. 0。专利
- 3、徐洪峰, 吴晓欣, 卢璐, 赵红, 二氧化铅修饰的全钒液流电池石墨毡电极及其制备方法, 2013. 9. 11-2033. 6. 3, 辽宁, CN201310217027. 1。专利
- 4、徐洪峰, 吴晓欣, 卢璐, 赵红, 一种液流电池石墨毡电极烧结改性处理方法, 2013. 8. 28-2033. 6. 3, 辽宁, CN201310216280. 5。专利
- 5、赵红, 赵月, 丁敏, 徐洪峰, 一种在质子交换膜Nafion表面沉积Pt纳米粒子的新方法, 2013. 1. 30-2032. 10. 24, 辽宁, CN201210411467. 6。专利
- 6、赵红, 郭斯栩, 丁敏, 赵月, 徐洪峰, U型液相反应器, 2013. 1. 30-2032. 10. 24, 辽宁, CN201210411453. 4。专利
- 7、徐洪峰, 赵红, 孙昕, 王国香, 史继诚, 一种质子交换膜燃料电池电极有序催化层制备方法, 2012. 11. 7-2032. 7. 30辽宁, CN201210269160. 7。专利
- 8、赵红, 张大珉, 梁立君, 卢璐, 徐洪峰, 废旧磷酸铁锂离子电池正极材料循环利用方法, 2012. 4. 4-2031. 11. 10, 辽宁, CN201110355352. 5。专利

教学情况

主要讲授物理化学(双语), 大学化学(全部英语), 材料测试与分析, 专业外语

获奖情况

1. 大连交通大学教学名师2010年
2. 辽宁省高等学校骨干青年教师2006年
3. 模压薄型燃料电池金属双极板制备技术, 辽宁省技术发明三等奖, 2011年, 排名第五
4. 模压薄型燃料电池金属双极板制备技术, 大连市技术发明二等奖, 2009年, 排名第四



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 Academic Rank: Master's Tutor
 Speciality: Physical Chemistry
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Education and Work Experiences

04/1994- present: Dalian Jiaotong University, RA, Instructor, associative prof., Prof.
 06/2006: Ph.D in DICP (Dalian Institute of Chemical physics, the Chinese academy of sciences)
 04/2000- 09/2000: Visiting scholar, Penn State Univ.

Project Development

1. Solid polymer electrolyte super capacitor, 2/8, 200 thousand, Dalian city
2. Research on novel carbon based slider of electric power engine, 3/7, 5 thousand, Liaoning
3. Technologies of double electrodes plates for full cell, 4/16, 1260 thousand, 863
4. The synthesis of metal oxide super capacitor materials by micro waves. 1/1, 10 thousand, Univ.
5. Demonstration teaching in bi-lingual, 1/4, 30 thousand, Liaoning

Publications

1. Wu, Xiaoxin, Xu, Hongfeng(*), Xu, Pengcheng, Shen, Yang, Lu, Lu, Shi, Jicheng, Fu, Jie, Zhao, Hong, Microwave-treated graphite felt as the positive electrode for all-vanadium redox flow battery, Journal of Power Sources, 2014, 263: 104-109. SCI期刊论文
2. Wu, Xiaoxin, Xu, Hongfeng(*), Lu, Lu, Zhao, Hong, Fu, Jie, Shen, Yang, Xu, Pengcheng, Dong, Yiming, PbO₂-modified graphite felt as the positive electrode for an all-vanadium redox flow battery, Journal of Power Sources, 2014, 250: 274-278. SCI期刊论文
3. Wang, Guo-xiang, Cai, Jian, Xu, Hong-feng(*), Lu, Lu, Zhao, Hong, Enhanced capacitance of a NiO electrode prepared in the magnetic field, Journal of Applied Electrochemistry, 2014, 44 (3) : 391-398. SCI期刊论文
4. Zhao, Hong(*), Ding, Min, Han, Miao, Li, Minglu, Study on the Preparation of Cocore-Pdshell/C Electro-Catalyst for DMFCs, Integrated Ferroelectrics, 2014, 151 (1) : 83-88. SCI期刊论文
5. Guoxiang Wang(#), Hongfeng Xu, Lu Lu, Hong Zhao, Magnetization-induced double-layer capacitance enhancement in active carbon/Fe₃O₄ nanocomposites, Journal of Energy Chemistry, 2014, 23 (6) : 809-815. 期刊论文
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7. Jicheng Shi(#), Hongfeng Xu, Hong Zhao, Lu Lu, Xiaoxin Wu, Preparation of Nd₂Fe₁₄B/C magnetic powder and its application in proton exchange membrane fuel cells, Journal of Power Sources, 2014, 252: 189-199. 期刊论文

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- 10.赵月, 赵红, 丁敏, 韩苗, 质子交换膜Nafion表面沉积Pt粒子新方法, *大连交通大学学报*, 2013, (04): 98-101. 期刊论文
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- 12.Shi, Jicheng, Xu, Hongfeng(*), Zhao, Hong, Lu, Lu, Synthesis and properties of Fe₃O₄/polyaniline and its tiny magnetic field functions during oxygen transfer processes, *Journal of Power Sources*, 2012, 205: 129-135. SCI期刊论文
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