

## Welcome

## 基本信息



全翠 博士 硕士生导师

## 联系方式

电话: (+86) 029-82668573

Email: quancui@xjtu.edu.cn

办公地址: 西安交通大学兴庆教学二区化工楼420室

邮编: 710049

## Analog Clock

## 站点计数器



## 我的新闻

## 研究领域

1. 煤和生物质的清洁高效利用;
2. 固体废物处理及资源化;
3. 热解油提质及资源化利用等;

## 教育与工作经历

- 2018.7-至今 西安交通大学 能源与动力工程学院, 副教授, 硕士生导师
- 2015.12-2018.7 西安交通大学 能源与动力工程学院, 讲师, 硕士生导师
- 2016.08-2017.08 University of Hull, UK, 访问学者
- 2012.10-2015.12 大连理工大学 化工学院, 讲师
- 2007.09-2012.09 大连理工大学 环境工程专业, 工学博士
- 2003.09-2007.07 大连理工大学 环境工程专业, 工学学士

## 主持及参与的科研项目

1. 中国博士后科学基金面上项目. 2016-2018, 负责人.
2. 国家公派出国留学基金项目. 2016-2017, 负责人.
3. 西安交通大学新教师科研支持计划项目, 2016-2019, 负责人.
4. 国家自然科学基金青年科学基金. 2014-2016, 负责人.
5. 中国博士后科学基金面上项目. 2013-2014, 负责人.
6. 中央高校基本科研业务费专项资金资助. 2012-2014, 负责人.
7. 辽宁省环境科研教育123工程基金. 2011-2012, 负责人.
8. 辽宁省环境科研教育123工程基金. 2009-2010, 负责人.
9. 国家环境保护部标准制(修)订项目. 2009-2014. 第二完成人.

## 代表性学术论文

1. Cui Quan, Zhengzhao Ma, Ningbo Gao\*, Chi He. Pyrolysis and combustion characteristics of corncob hydrolysis residue. Journal of Analytical and Applied Pyrolysis, 2018,130: 72-78.
2. Cui Quan, Ningbo Gao\*, Chunfei Wu. Utilization of NiO/porous ceramic monolithic catalyst for upgrading biomass fuel gas. Journal of the Energy Institute. 2018, 91(3): 331-338.
3. Ningbo Gao, Cui Quan\*, Zhengzhao Ma, Chunfei Wu. Thermal Characteristics of Biomass Pyrolysis Oil and Potential Hydrogen Production by Catalytic Steam Reforming. Energy Fuels, 2018, 32 (4), 5234-5243.

4. Ningbo Gao, Xiao Wang, Cui Quan, Chunfei Wu. Study of oily sludge pyrolysis combined with fine particle removal using a ceramic membrane in a fixed-bed reactor. *Chemical Engineering and Processing - Process Intensification*. 2018, 130: 276-281.
5. Ningbo Gao, Cui Quan\*, Baoling Liu, et al. Continuous Pyrolysis of Sewage Sludge in a Screw-Feeding Reactor: Products Characterization and Ecological Risk Assessment of Heavy Metals. *Energy Fuels*, 2017, 31(5): 5063-5072.
6. Cui Quan, Ningbo Gao. Co-pyrolysis of Biomass and Coal: A Review of Effects of Co-pyrolysis Parameters, Product Properties, and Synergistic Mechanisms. *BioMed Research International*. 2016, 1-11.
7. Cui Quan, Ningbo Gao, Qingbin Song. Pyrolysis of biomass components in a TGA and a fixed-bed reactor: Thermochemical behaviors, kinetics, and product characterization. *Journal of Analytical and Applied Pyrolysis*, 2016, 121: 84-92.
8. 全翠. 生物质热解特性及其热解焦的反应性研究. 2016中国工程热物理年会, 10.21-23, 安徽马鞍山.
9. Cui Quan, Shaoping Xu, Junjie Zhang et al. In-situ upgrading of tar with char during co-pyrolysis of biomass and coal in a free fall reactor. 2015 International Conference on Coal Science & Technology. 2015. 9.27-10.1. Melbourne, Australia.
10. Junjie Zhang, Cui Quan, Yujie Qiu, Shaoping Xu. Effect of char on co-pyrolysis of biomass and coal in a free fall reactor. *Fuel Processing Technology*. 2015, 135:73-79.
11. Cui Quan, Shaoping Xu, Yi An et al. Co-pyrolysis of biomass and coal blend by TGA and in a free fall reactor. *Journal of Thermal Analysis and Calorimetry*, 2014, 117(2): 817–823.
12. Cui Quan, Aimin Li, Ningbo Gao. Combustion and pyrolysis of electronic waste: thermogravimetric analysis and kinetic model, *Procedia Environmental Sciences*, 2013(18): 776-782.
13. Ningbo Gao, Aimin Li, Cui Quan, Lin Du, Yue Duan. TG–FTIR and Py–GC/MS analysis on pyrolysis and combustion of pine sawdust. *Journal of Analytical and Applied Pyrolysis*. 2013, 100: 26-32.
14. Cui Quan, Aimin Li, Ningbo Gao. Research on pyrolysis of PCB waste with TG-FTIR and Py-GC/MS. *Journal of Thermal Analysis and Calorimetry*, 2012, 110(3): 1463-1470.
15. Cui Quan, Aimin Li, Ningbo Gao. Study on characteristics of printed circuit board liberation and its crushed products. *Waste Management & Research*, 2012, 30(11): 1178-1186.
16. Ningbo Gao, Aimin Li, Cui Quan, Characteristics of hydrogen-rich gas production of biomass gasification with porous ceramic reforming. *International Journal of Hydrogen Energy*, 2012, 37(12): 9610–9618.
17. Cui Quan, Aimin Li, Ningbo Gao. Synthesis of carbon nanotubes and porous carbons from printed circuit board waste pyrolysis oil. *Journal of Hazardous Materials*, 2010, 179(1-3):911-917.
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19. Cui Quan, Aimin Li, Ningbo Gao. Thermogravimetric analysis and kinetic study on large particles of printed circuit board wastes. *Waste Management*, 2009, 29(8):2353-2360.
20. 全翠, 李爱民, 高宁博. 几种典型电子垃圾大物料量热重实验及机理研究, *燃烧科学与技术*, 2010, 16(1):45-50.
21. 全翠, 李爱民, 高宁博, 郭眈丹. 采用热解回收油泥中原油, *石油学报 (石油加工)*, 2010, 26(5):742-746.
22. 全翠, 李爱民, 高宁博. 灰色预测模型及分布活化能模型在废电路板热解中的应用, *环境工程学报*. 2009, 3(9): 1687-1691.
23. 王刚, 李爱民, 全翠. 生物质与聚乳酸塑料共热解特性. *化工学报*, 2009, 60(7): 1787-1792.
24. 全翠, 李爱民, 栾敬德, 高宁博. 电路板热解特性及动力学分析, *安全与环境学报*. 2008, 28(5): 55-58.

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