

学院新闻

## 迎接2018年教育部本科教学工作审核评估

以评促建、以评促改、以评促管、评建结合、重在建设

学生工作

您当前所在位置: 师资简介

- > 师资队伍
- > 兼职教授
- > 特聘教授

### 岳正波

姓 名: 岳正波	性 别: 男
出生年月:	职 称: 副教授
行政职务:	研究生导师: 博士生导师
E-mail: zbyue@hfut.edu.cn	联系电话: 0551-62901523
通信地址: 安徽省合肥市屯溪路193号	邮 编: 230009

个人简介:

1998-2002, 山东大学, 获环境工程学士学位;  
2003-2008, 中国科学技术大学, 获环境工程博士学位;  
2009-2010, 美国密歇根州立大学, 博士后。

研究领域:

- 1、固体废物的资源化利用: 主要包括农业废弃物、水生植物及巢湖蓝藻的能源化利用及机制研究;
- 2、废水生物处理与污染控制: 主要包括含重金属废水的生物处理以及微生物胞外聚合物的作用研究。

教学工作:

环境监测; 环境工程专业英语; 环境工程施工技术基础; 研究生论文写作; 研究生创新实验

科研工作:

- 主持课题
- 1) 国家自然科学基金面上项目, 铁氧化物促进短链脂肪酸互营氧化产生甲烷的机制研究, 2016.1-2019.12, 41572326;
  - 2) 安徽省自然科学基金项目, 藻类生物质酸提取液强化秸秆降解过程研究, 2013.3-2015.6, 1308085QE84;
  - 3) 国家自然科学基金青年基金, 胞外聚合物在SRB分解硫酸盐矿物中的作用机理, 2012.1-2014.12, 41102214;
  - 5) 教育部博士点基金新教师类, 嗜酸氧化亚铁硫杆菌胞外聚合物在黄铁矿生物分解过程中的作用机制, 2010.11-2013.12, 2010JYX.
  - 6) 合肥工业大学青年教师创新基金, 藻类酸液对秸秆降解过程的作用机制分析, 2011.5-2012.5;

主要参与的科研项目

- 1) 水体污染控制与治理科技重大专项子任务, 重点污染源磷削减与污染控制技术工程示范, 2012.1-2015.12, 2012ZX07103-00
- 2) 国家自然科学基金重点项目, 铁氧化物、硫酸盐矿物与厌氧微生物交互作用及环境效应, 2012.01-2016.12, 41130206;
- 3) 973预研项目, 矿物增强有机废物厌氧转化的基础研究, 2011.1-2014.12, 2011CB411904.

论著获奖:

- 文章发表
1. Zheng-Bo Yue, Qing Li, Chuan-chuan Li, Tian-hu Chen, Jin Wang\*. Component analysis and heavy metal adsorption ability of extracellular polymeric substances (EPS) from sulfate reducing bacteria. *Bior Technology*, 2015, 194: 399-402
  3. Zheng-bo Yue, Ding Ma, Jin Wang\*, Juan Tan, Shu-Chuan Peng, Tian-Hu Chen, Goethite promoted anaerobic digestion of algal biomass in continuous stirring-tank reactors, *Fuel*, 2015, 159: 883-886.
  4. Ding Ma, Jin Wang, Changbo Shi, Tianhu Chen, Zhengbo Yue\*, Promotion of methane production from lignocellulosic biomass with the addition of iron oxides. 2015, 29 (7):4356-4360
  5. Tan J, Wang J, Xue J, Liu SY, Peng SC, Ma D, Chen TH, Yue ZB\*. Methane production and microbial community analysis in the goethite facilitated anaerobic reactors using algal biomass. *Fuel*. 2015, 145:196-200
  6. Wang J, Li Q, Li MM, Chen TH, Zhou YF, Yue ZB\*. Competitive adsorption of heavy metal by EPS extracted from sulfate reducing bacteria. *Bioresource Technology*. 2014. 163,374-376.
  7. Peng SC, Xue J, Shi CB, Wang J, Chen TH, Yue ZB\*. Iron-enhanced anaerobic digestion of cyanobacterial biomass from Lake Chao, *Fuel*, 2014,117:1-4
  8. Yue ZB, MacLellan J, Liu Y, Liao W\*, Effects of corn stover as carbon supplement on an integrated

anaerobic digestion and ethanol fermentation process. *Journal of Renewable and Sustainable Energy*. 063116.

9.Wang J, Wan ZQ, Peng SC, Yue ZB\*, Wu J, Chen TH\*. Feasibility of anaerobic digested corn stover as biosorbent for heavy metal, *Bioresource Technology*, 2013. 132: 453-456.

10.Yue ZB, Li WW, Yu HQ. Application of rumen microorganisms for anaerobic bioconversion of lignocellulosic biomass. *Bioresource Technology*. 2013, 128:738-744.

11.Yue ZB, Chen R, Yang F, MacLellan J, Marsh T, Liu Y, Liao W\*. Effects of dairy manure and corn silage digestion on anaerobic microbes and corresponding digestion performance. *Bioresource Technology*. 2012, 143: 65-71.

12.Wang J, Li SJ, Chen TH\*, Zhang H, Zhang N, Yue ZB\*. Effects of heavy metals on the biological methane production performance in the anaerobic sulfidogenic reactor using rape straw as carbon source. *Environmental Earth Science*. 67(7): 2161-2167.

13.Yue ZB\*, Wang J, Liu XM, Yu Han-Qing. Comparison of rumen microorganism and digester sludge dominated anaerobic digestion processes for aquatic plants. *Renewable Energy*. 2012, 46, 255-258.

14.Hu Zhen-Hu, Yue Zheng-Bo, Yu Han-Qing\*, Liu Shao-Yang, Harada Hideki, Li Yu-You. Mechanisms of microwave irradiation pretreatment for enhancing anaerobic digestion of cattail by rumen microorganisms. *Appl Energy*, 2012, 93: 229-236.

15.Wang J, Chen TH\*, Li SJ, Yue ZB, Jin J. Biosorption of Copper from artificial acid mine drainage using rape straw. *Geomicrobiology Journal*, 2012, 29:250-254.

16.Chen R, Yue ZB, Deitz L, Liu Y, Mulbry W, Liao W\*. Use of an agal hydrolysate to improve enzymatic hydrolysis of lignocelluloses. *Bioresource Technology*. 2012, 108:150-154.

17.Yue ZB, Teater C, Liu Y, MacLellan J, Liao W\*. Development of a new biorefining feedstock manure using different anaerobic digestion treatments. *Biomass and Bioenergy*. 2011, 35(5):1946-1953.

18.Teater C, Yue ZB, Liu Y, MacLellan J, Liao W\*. 2011. Assessing solid digestate from anaerobic digestion as feedstock for ethanol production. *Bioresource Technology*. 102(2): 1856-1862.

19.Wang J, Yue ZB\*, Chen TH, Peng SC, Yu HQ, Chen HZ. Anaerobic digestibility and fiber composition of bulrush in response to steam explosion. *Bioresource Technology*. 2010, 101(17): 6610-6614.

20.Yue ZB, Teater C, Liu Y, MacLellan J, Liao W\*. A sustainable pathway of cellulosic ethanol production integrating anaerobic digestion with biorefining. *Biotechnology and Bioengineering*, 2010, 105(6): 1039.

21.Yue ZB, Zhang ML, Sheng GP, Liu RH, Long Y, Xiang BR, Wang J, Yu HQ\*. Determination of main components and anaerobic rumen digestibility of aquatic plants in vitro using near infrared reflectance spectroscopy. *Water Research*, 2010, 44(7): 2229-2234.

22.苏宇,王进, 彭书传, 岳正波, 陈天虎, 金杰, 以稻草和污泥为碳源硫酸盐还原菌处理酸性矿山排水, *环境科学*, 2010(8), 18

23.金鑫, 王进, 陈天虎, 岳正波. 铁氧化物对硫酸盐还原菌分解硫酸盐矿物的协同作用. *矿物学报*, 2010, 30(3), 343-347.

24.Zhao BH, Yue ZB, Ni BJ, Mu Y, Yu HQ\*, Harada H. Modeling anaerobic digestion of aquatic plants in batch cultures: cattail as an example. *Water Research*, 2009, 43(7):2047-2055.

25.Yue ZB, Yu HQ\*. Anaerobic batch degradation of cattail by rumen cultures. *International Journal of Environmental and Pollution*. 2009, 38(3):299-308.

26.Zhao BH, Yue ZB, Liu RH, Zhao QB, Mu Y, Yu HQ \*, Harada H, Li YY. Optimization of hydrogen production in a granule-based UASB reactor. *International Journal of Hydrogen Energy*, 2009,33(10):2454-2461.

27.Yue ZB, Liu RH, Yu HQ\*, Chen HZ, Yu B, Harada H, Li YY. Enhanced anaerobic ruminal degradation of lignocellulose through steam explosion pretreatment. *Industrial & Engineering Chemistry Research*, 2008, 47(16): 58

28.Yue ZB, Hu ZH, Yu HQ\*, Harada H, Li YY. Surfactant-enhanced anaerobic acidogenesis of *Canna indica* rumen cultures. *Bioresource Technology*. 2008, 99(9):3418-3423.

29.Hu ZH, Liu SY, Yue ZB Yan LF, Yang MT, Yu HQ\*. Micro-scale analysis of in vitro anaerobic degradation of lignocellulosic wastes by rumen microorganisms. *Environmental Science & Technology*, 2008. 42(1): 27

30.Yue ZB, Yu HQ\*, Harada H, Li YY. Optimization of anaerobic acidogenesis of an aquatic plant, *Canna indica*, by rumen cultures. *Water Research*, 2007, 41(11): 2361-2370.

31.Yue ZB, Yu HQ\*, Wang ZL. Anaerobic digestion of cattail with rumen culture in the presence of heavy metals. *Bioresource Technology*, 2007, 98 (4): 781-786.

32.Hu ZH, Yu HQ\*, Yue ZB. Kinetic analysis of anaerobic digestion of cattail by rumen microbes in a granule-based UASB reactor. *Biochemical Engineering Journal*, 2007, 37 (2): 219-225.

33.Sheng GP, Yu HQ\*, Yue ZB. Factors influencing the production of extracellular polymeric substances from *Rhodospseudomonas acidophila*. *International Biodeterioration & Biodegradation*, 2006, 58: 89-93.

34.Sheng GP, Yu HQ\*, Yue ZB. Production of extracellular polymeric substances from *Rhodospseudomonas acidophila* in the presence of toxic substances. *Applied Microbiology and Biotechnology*, 2005, 69 (2): 222.

获奖情况

1)2011年安徽省科学技术奖一等奖(R5);

	2) 2012届本科生毕业设计(论文)优秀指导教师; 3) 2014年合肥工业大学“三百人”先进工作者。
事务管理系统	精品课程资源

联系地址: 安徽省合肥市包河区屯溪路193号合肥工业大学资源与环境工程学院  
邮政编码: 230009 联系电话: 0551-62901524  
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