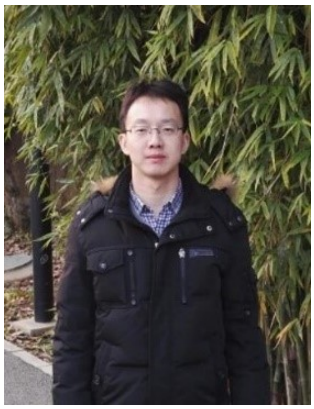
师资队伍

环境工程系 >
市政工程系 >
建筑环境与能源工程系 >
环境科学研究系 >
实验中心 >
客座教授 | 兼职教授 >

姓名: 龚建宇
出生年月: 1983.06
学历: 博士
职称: 副教授
专业方向: 环境材料、光电催化
电话:
Email: jygong@hust.edu.cn
个人主页:



个人简介

教育与研究经历

2012年6月于华中科技大学获环境工程专业博士学位，2012年7月至2016年9月先后在韩国浦项工科大学和加拿大多伦多大学从事博士后研究工作，2016年11月至今任华中科技大学环境科学与工程学院副教授。

研究领域与兴趣

1. 光（电）化学水环境和大气环境污染处理
2. 小分子能源催化、转化
3. 土壤、地下水修复新型环境材料与技术

承担项目与课题

1. 国家自然科学基金青年项目，21707038，2018-2020，主持
2. 湖北省自然科学基金面上项目，2017CFB668，2017-2018，主持
3. 华中科技大学自主创新基金，2017KFYXJJ215，2017-2019，主持
4. 华中科技大学人才引进基金，2017-2019，主持

承担课程

本科课程：水质分析化学；水质分析化学实验

研究生课程：高级氧化技术；环境化学

通讯或第一作者论文

18. Hao Du[#], Changzhu Yang[#], Wenhong Pu, Hao Zhao, **Jianyu Gong***. Highly active Sb_2S_3 attached Mo-WO_3 composite film for enhanced photoelectrocatalytic water splitting at extremely low input light energy. **ACS Sustainable Chemistry & Engineering** 2019. DOI: 10.1021/acssuschemeng.8b06545.

17. Lingyu Zeng[#], **Jianyu Gong*,** Jinfeng Dan[#], Shuang Li, Jingdong Zhang, Wenhong Pu, Changzhu Yang*. Novel visible light enhanced Pyrite-Fenton system toward ultrarapid

oxidation of p-nitrophenol: Catalytic activity, characterization and mechanism.**Chemosphere** 228 (2019) 232-240.

16. **Jianyu Gong***, Ayan Chen, Yunyang Wang. Insight into different mechanism for oxidation of liquid and gaseous pollutants by Bi-$NaBiO_3$ with or without visible light illumination. **ChemCatChem** 11 (2019) 1–10.

15. Yunyang Wang[#], Changzhu Yang[#], Ayan Chen, Wenhong Pu, **Jianyu Gong***. Influence of yolk-shell Au@TiO_2 structure induced photocatalytic activity towards gaseous pollutant degradation under visible light. **Applied Catalysis B: Environmental** 251 (2019) 57–65.

14. Min-Hui Son[#], **Jianyu Gong[#] (Co-first author)**, Sunghee Seo, Hakwon Yoon, Yoon-Seok Chang*. Photosensitized diastereoisomer-specific degradation of hexabromocyclododecane (HBCD) in the presence of humic acid in aquatic systems. **Journal of Hazardous Materials** 369 (2019) 171–179.

13. Hao Du[#], Wenhong Pu[#], Yunyang Wang, Kai Yan, Jun Feng, Jingdong Zhang, Changzhu Yang*, **Jianyu Gong***. Synthesis of $BiVO_4$/WO_3 composite film for highly efficient visible light induced photoelectrocatalytic oxidation of norfloxacin. **Journal of Alloys and Compounds** 787 (2019) 284–294.

12. Shuoshuo Zhang[#], Wenhong Pu[#], Hao Du, Yunyang Wang, Changzhu Yang*, **Jianyu Gong***. Facile synthesis of Pt assisted Bi-Bi_2WO_{6-x} with oxygen vacancies for the improved photocatalytic activity under visible light. **Applied Surface Science** 459 (2018) 363–375.

11. **Jianyu Gong,** Chung-Seop Lee, Eun-Ju Kim, Jae-Hwan Kim, Woojin Lee, and Yoon-Seok Chang*. Self-generation of reactive oxygen species on crystalline $AgBiO_3$ for the oxidative remediation of organic pollutants. **ACS Applied Materials & Interfaces** 9 (2017) 28426–28432.

10. **Jianyu Gong,** Alexander Imbault and Ramin Farnood*. The promoting role of bismuth for the enhanced photocatalytic oxidation of lignin on Pt-TiO_2 under solar light illumination. **Applied Catalysis B: Environmental** 204 (2017) 296–303.

9. **Jianyu Gong,** Chung-Seop Lee, Eun-Ju Kim, Yoon-Young Chang and Yoon-Seok Chang*. Enhancing the reactivity of bimetallic Bi/Fe^0 by citric acid for remediation of polluted groundwater. **Journal of Hazardous Materials** 310 (2016) 135–142.

8. **Jianyu Gong,** Chung-Seop Lee, Yoon-Young Chang and Yoon-Seok Chang*. Novel self-assembled bimetallic structure of Bi/Fe^0: The oxidative and reductive degradation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). **Journal of Hazardous Materials** 286 (2015) 107–117.

7. **Jianyu Gong,** Chung-Seop Lee, Yoon-Young Chang and Yoon-Seok Chang*. A novel self-assembling nanoparticle of Ag-Bi with high reactive efficiency. **Chemical Communications** 50 (2014) 8597–8600.

6. **Jianyu Gong,** Changzhu Yang, Jingdong Zhang, Wenhong Pu*. Origin of photocatalytic activity of W/N-codoped TiO_2 : H_2 production and DFT calculation with GGA+U. **Applied Catalysis B: Environmental** 152-153 (2014) 73–81.

5. **Jianyu Gong,** Wenhong Pu, Changzhu Yang, Jingdong Zhang*. Novel one-step preparation of tungsten loaded TiO_2 nanotube arrays with enhanced photoelectrocatalytic activity for pollutant degradation and hydrogen production. **Catalysis Communications** 36 (2013) 89–93.

4. Man Zhou, **Jianyu Gong*,** Changzhu Yang*, Wenhong Pu. Simulation of the performance of aerobic granular sludge SBR using modified ASM3 model. **Bioresource Technology** 127 (2013) 473-481.

3. **Jianyu Gong,** Wenhong Pu*, Changzhu Yang, Jingdong Zhang*. A simple electrochemical oxidation method to prepare highly ordered Cr-doped titania nanotube arrays with promoted photoelectrochemical property. **Electrochimica Acta** 68 (2012) 178-183.

2. **Jianyu Gong,** Wenhong Pu*, Changzhu Yang, Jingdong Zhang*. Tungsten and nitrogen co-doped TiO_2 electrode sensitized with Fe-chlorophyllin for visible light photoelectrocatalysis. **Chemical Engineering Journal** 209 (2012) 94-101.

1. **Jianyu Gong,** Changzhu Yang*, Wenhong Pu, Jingdong Zhang*. Liquid phase deposition of tungsten doped TiO_2 films for visible light photoelectrocatalytic degradation of dodecyl-benzenesulfonate. **Chemical Engineering Journal** 167 (2011) 190-197.

邮编：430074 | 电话：(+86)027-87792101

地址：中国·湖北省·武汉市珞瑜路1037号 华中科技大学东校区环境学院大楼