黄海保

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团队长期招聘教授、研究员、博士后和研究助理，欢迎报考博士、硕士研究生！

基本情况

黄海保，华南理工大学学士、博士，清华大学、香港大学博士后，阿德莱德大学高级访问学者。现为中山大学“百人计划”引进教授、博士生/博士后导师，大气环境与污染控制学科带头人，粤港空气污染控制研究中心主任、广东省室内空气污染控制工程技术研究中心主任，入选“广东特支计划”科技创新人才计划、中山大学优秀共产党员。主要从事城市空气污染治理、工业有机废气治理、室内空气污染净化和环境催化材料等教学与研究工作，并取得重要原创性研究成果。第一（或通讯）作者在Appl. Catal. B: Environ.等国际期刊发表SCI论文近100篇（其中中科院1区论文38篇，高引论文3篇），被引用4000余次；申请国家专利40余项（其中授权发明专利10余项）。主持国家重点研发计划项目、国际（地区）合作基金 (NSFC-RGC)、国家自然科学基金、广东-香港政府联合基金和广东省科技计划重点基金等项目20余项。任国家空气净化产品质量监督检验中心专家委员会委员、中国环境科学学会VOCs污染防治专业委员会常委以及室内环境与健康分会理事、中国环保产业协会废气净化委员会技术专家以及中华环保联合会VOCs污染防治专业委员会委员，作为第一完成人获得广东省科学技术发明二等奖、广东省环境技术进步奖一等奖、全国VOCs监测与治理创新成果优秀人物、中国环境科学学会青年科技奖等。指导学生获国家奖学金、全国大学生“挑战杯”科技作品竞赛奖、广东省优秀研究生奖和广东省科学技术发明奖等。

联系方式

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教育经历

2003-2008　华南理工大学，硕士/博士

1997-2001　华南理工大学，学士

工作经历

2018-迄今 中山大学环境科学与工程学院 教授/博导，大气学科带头人

2017-迄今 粤港空气污染控制研究中心主任、广东省室内空气污染控制工程技术研究中心主任

2016-2020 中山大学环境科学与工程学院，博导/院长助理

2012-2018中山大学环境科学与工程学院，百人计划引进副教授

2011.6-8　the University of Adelaide (Australia) 高级访问学者

2009-2012 the University of Hong Kong 博士后/高级研究员

2008-2009　清华大学，博士后研究员

2001-2003　华南理工大学，教师

_研究领域

城市空气污染控制

VOCs废气治理

室内空气净化

恶臭异味治理

环境杀菌消毒

环境催化材料

空气净化设备

主持科研项目

国家重点研发计划项目

国家自然科学基金委员会与香港联合科研资助基金（NSFC-RGC）

国家自然科学基金

广东省科技厅-香港创新署联合基金（粤港联合创新，GD-ITF）

广东省科技计划项目-粤港联合创新平台建设

广东省应用型科技研发专项（重点）

_获奖/社会兼职

广东省科学技术发明二等奖（广东省人民政府）

广东省环境技术进步奖一等奖

“广东特支计划”科技创新人才计划

中国环境科学学会青年科技奖

全国VOCs监测与治理创新成果优秀人物

中国环境科学学会VOCs污染防治专业委员会 “学术创新奖”

广东省课程思政优秀案例二等奖

“挑战杯”全国大学生课外学术科技作品竞赛三等奖 指导教师

国家空气净化产品质量监督检验中心专家委员会委员

中国环境科学学会第八次全国会员代表大会代表

中国环境科学学会VOCs污染防治专业委员会常委

中国环境科学学会室内环境与健康分会委员

中国环保产业协会废气净化委员会技术专家

中华环保联合会VOCs污染防治专业委员会委员

国家自然科学基金评审专家

广东省科技厅科技特派员

Journal of Environmental Sciences客座编辑

Environ. Sci. Technol.、Appl. Catal. B: Environ.和J. Catal.等期刊审稿人

代表性论著

1. Boge Zhang, Jian Ji, et al., **Haibao Huang*,** Highly efficient ozone decomposition against harsh environments over long-term stable amorphous MnO_x catalysts. Applied Catalysis B: Environmental, 2022, 309, 121235.

2. Biyuan Liu, et al., **Haibao Huang***, Effective regulation of surface bridging hydroxyls on TiO_2 for superior photocatalytic activity via ozone treatment. Applied Catalysis B: Environmental, 2022, 304, 120952.

3. Xiaowen Xie, et al., **Haibao Huang***, Accelerated iron cycle inducing molecular oxygen activation for deep oxidation of aromatic VOCs in MoS_2 co-catalytic Fe^{3+}/PMS system. Applied Catalysis B: Environmental, 2022, 309, 121235.

4. Lyumeng Ye, et al., Junhua Li, **Haibao Huang***, The deactivation mechanism of toluene on MnOx-CeO_2 SCR catalyst, Applied Catalysis B: Environmental, 2020, 277, 119257.

5. Yajie Shu, et al., **Haibao Huang***, Selective photocatalytic oxidation of gaseous ammonia at ppb level over Pt and F modified TiO_2, Applied Catalysis B: Environmental, 2022, 300, 120688.

6. Yajie Shu, Jian Ji, Ying Xu, Jiguang Deng, **Haibao Huang***, et al., Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO_2 under vacuum ultraviolet (VUV) irradiation, Applied Catalysis B: Environmental, 2018, 220, 78-87.

7. **Haibao Huang***, et al. Catalytic oxidation of benzene over Mn modified TiO_2/ZSM-5 under vacuum UV irradiation, Applied Catalysis B: Environmental, 2017, 203, 870-878.

8. Huiling Huang, **Haibao Huang***, et al., Efficient degradation of gaseous benzene by VUV photolysis combined with ozone-assisted catalytic oxidation: performance and mechanism, Applied Catalysis B: Environmental, 2016, 186, 62–68.

9. Jian Ji*, Xiaolong Lu, Cheng Chen, Miao He, **Haibao Huang***. Potassium-modulated δ-MnO_2 as robust catalysts for formaldehyde oxidation at room temperature, Applied Catalysis B: Environmental, 2020, 260, 118210.

10. Shimin Liang, et al., **Haibao Huang***, et al., Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation, Journal of Hazardous Materials, 2020, 399, 122967.

11. Miao He, Yueqiang Cao, Jian Ji*, Kai Li, **Haibao Huang*** , Superior catalytic performance of Pd-loaded oxygen-vacancy-rich TiO_2 for formaldehyde oxidation at room temperature, Journal of Catalysis, 2021, 396, 122-135.

12. Lyumeng Ye, Peng Lu, Yue Peng*, Junhua Li, **Haibao Huang***, Impact of NO_x and NH_3 addition on toluene oxidation over MnO_x-CeO_2 catalyst, Journal of Hazardous Materials, 2021, 416, 125939.

13. Biyuan Liu, Jian Ji, **Haibao Huang***, Catalytic ozonation of VOCs at low temperature: A comprehensive review, Journal of Hazardous Materials, 2022, 422, 126847.

14. Xiaowen Xie, Ruijie Xie, Ziyi Suo, **Haibao Huang***, Mingyang Xing, Dongxue Lei, A highly dispersed Co-Fe bimetallic catalyst to activate peroxymonosulfate for VOCs degradation in wet scrubber, Environmental Science: Nano, 2021, 8, 2976-2987 .

15. Muyan Wu, Yingguang Zhang, **Haibao Huang***, Dennis Y.C. Leung*, Mechanistic study of vacuum UV catalytic oxidation for toluene degradation over CeO_2 nanorods. Green Energy & Environment, 2022, 7, 533-544.

16. Shengjun Ye, Yiheng Li, **Haibao Huang***, et al., Fast and deep disinfection for face masks recycle using vacuum ultraviolet irradiation, Journal of Cleaner Production, 2022, 368, 133221.

17. **Haibao Huang***, et al., Destruction of toluene by ozone-enhanced photocatalysis in a honeycomb type reactor, Performance and mechanism, Applied Catalysis B: Environmental, 2011, 102 (3-4), 449-453.

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20. **Haibao Huang***, L. Aisyah P.J. Ashman, Dennis Y.C. Leung, Philip C.W. Kwong*, Chemical looping combustion of biomass-derived syngas using ceria-supported oxygen carriers, Bioresource Technology, 2013, 140, 385-391.

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23. **Haibao Huang***, et al., Complete elimination of indoor formaldehyde over supported Pt catalysts with extremely low Pt content at ambient temperature, Journal of Catalysis. 2011, 280 (1), 60-67.

24. Jian Ji, Ying Xu, **Haibao Huang***, et al., Mesoporous TiO_2 under VUV irradiation: Enhanced photocatalytic oxidation for VOCs degradation at room temperature, Chemical Engineering Journal, 2017, 327, 490-499.

25. Ruijie Xie, Jianping Cao, et al., **Haibao Huang***, Mechanistic insights into complete oxidation of chlorobenzene to CO_2 via wet scrubber coupled with UV/PDS, Chemical Engineering Journal, 2020, 401, 126077.

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33. **Haibao Huang**, Daiqi Ye*. Combination of photocatalysis downstream the non-thermal plasma reactor for oxidation of gas-phase toluene, Journal of Hazardous Materials, 2009, 171(1-3), 535-541.

34. Yujie Zhan, Jian Ji, **Haibao Huang***, et al., A facile VUV/H_2O system without auxiliary substances for efficient degradation of gaseous toluene, Chemical Engineering Journal, 2018, 334, 1422-1429.

35. Ruimei Fang, **Haibao Huang***, et al., Efficient MnOx supported on coconut shell activated carbon for catalytic oxidation of indoor formaldehyde at room temperature, Chemical Engineering Journal, 2018, 334, 2050–2057.

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