

丁耀彬老师简介

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研究方向：多相环境催化、光催化、纳米环境催化材料

学者简介：丁耀彬，博士。2002年毕业于郑州大学环境工程专业，2009年毕业于华中科技大学环境科学与工程专业（工学硕士），2013年毕业于华中科技大学材料物理与化学专业（工学博士），2013年12月进入中南民族大学工作。期间，受国家留学基金委资助，2019年11月-2020年11月访问美国Georgia Institute of Technology。

主持国家自然科学基金项目2项，省部级自然科学基金3项，已经在*Appl. Catal. B: Environ*和*J. Hazard. Mater.*等国际权威期刊，发表研究论文40余篇，个人H指数20。4篇论文入选ESI高被引论文（Highly Cited Papers）。2018年获得湖北省自然科学奖二等奖一项（第4完成人）。

主讲课程：

（本科生课程）环境监测、高级氧化技术、环境样品前处理技术、污染控制化学

（研究生课程）化学信息学、污染控制化学

教学及科研项目:

1. 国家自然科学基金面上项目, 载流子自分离型光催化微界面的构筑及其高效降解溴酚类污染物 (21876209), 2019-2022, 主持.
2. 国家自然科学基金青年项目, 自掺杂铋基光催化剂光催化氧化及其单线态氧直接氧化协同降解PPCPs (21507168), 2016-2018, 主持.
3. 湖北省自然科学基金面上项目, 黄药-铁-亚硫酸盐三元配合物的环境光化学效应及对黄药氧化降解机理研究 (2018CFB623), 2018-2019, 主持.
4. 湖北省自然科学基金青年项目, 多级孔结构磁性石墨烯基反应器的构筑及其吸附-催化氧化降解ppt级环境激素的研究 (2015CFB505), 2015-2016, 主持.
5. 国家民委科研一般项目, Bi(III)/Bi(V)混合价态异质结型光催化剂的制备及其去除难降解PPCPs的研究 (CZW15078), 2015-2016, 主持.
6. 校级重点项目, 基于工程教育专业认证OBE的环境科学培养模式的改革与实践 (JYZD18008), 2018-2020, 主持.
7. 校级一般项目, 污染控制系列课程教学内容和方法的整合与优化研究 (JYX2015029), 2015-2016, 主持.

教学及科研论文:

1. **Yaobin Ding**, Xueru Wang, Libin Fu, Xueqin Peng, Cong Pan, Qihang Mao, Chengjun Wang, Jingchun Yan*, Nonradicals induced degradation of organic pollutants by peroxydisulfate (PDS) and peroxymonosulfate (PMS): Recent advances and perspective, *Sci. Total Environ.* **2021**, <https://doi.org/10.1016/j.scitotenv.2020.142794>.
2. Cong Pan, Libin Fu, Yaobin Ding*, Xueqin Peng, Qihang Mao, Homogeneous catalytic activation of peroxymonosulfate and heterogeneous reductive regeneration of Co^{2+} by MoS_2 : The pivotal role of pH. *Sci. Total Environ.* **2020**, 712, 136447-136457.
3. Yaobin Ding*, Cong Pan, Xueqin Peng, Qihang Mao, Yuwen Xiao, Libin Fu, Jia Huang*, Deep mineralization of bisphenol A by catalytic peroxymonosulfate activation with nano $\text{CuO}/\text{Fe}_3\text{O}_4$ with strong Cu-Fe interaction. *Chem. Eng. J.* **2020**, 384, 123378-123392.
4. Jia Huang*, Gang Nie, **Yaobin Ding***, Metal-free enhanced photocatalytic activation of dioxygen by g- C_3N_4 doped with abundant oxygen-containing functional groups for selective N-deethylation of Rhodamine B. *Catalysts*. **2020**, 10, 1-16.
5. **Yaobin Ding***, Yue Hu, Xueqin Peng, Yuwen Xiao, Jia Huang*, Micro-nano structured CoS: An efficient catalyst for peroxymonosulfate activation for removal of bisphenol A. *Sep. Purif. Technol.* **2020**, 233, 116022-116030.
6. Jin Cao, Wenshan Nie, Long Huang, **Yaobin Ding***, Kangle Lv, Heqing Tang*, Photocatalytic activation of sulfite by nitrogen vacancy modified graphitic carbon nitride for efficient degradation of carbamazepine, *Appl. Catal. B: Environ.* **2019**, 241, 18-27. **Highly cited paper**
7. Wenshan Nie, Qihang Mao, **Yaobin Ding***, Yue Hu, Heqing Tang*, Highly efficient catalysis of chalcopyrite with surface bonded ferrous species for activation of peroxymonosulfate toward degradation of bisphenol A: A mechanism study, *J. Hazard. Mater.* **2019**, 364, 59-68. **Highly cited paper**
8. **Yaobin Ding***, Wenshan Nie, Wenjing Li, Qing Chang, Co-doped NaBiO_3 nanosheets with surface confined Co species: High catalytic activation of peroxymonosulfate and ultra-low Co leaching, *Chem. Eng. J.* **2019**, 356, 359-370.

9. Jin Cao, Cong Pan, **Yaobin Ding***, Wenjing Li, Kangle Lv, Heqing Tang*, Constructing nitrogen vacancy introduced g-C₃N₄ p-n homojunction for enhanced photocatalytic activity, *J. Environ. Chem. Eng.* **2019**, 7, 102984-102993.
10. Jia Huang, Jin Cao, **Yaobin Ding***, Yezhou Hu, Yuanjiang Cen, Heqing Tang*, Variable-valence metals catalyzed solid NaBiO₃ nanosheets for oxidative degradation of norfloxacin, ofloxacin and ciprofloxacin: Efficiency and mechanism, *Chemosphere*. **2018**, 205, 531-539.
11. Yezhou Hu, Yanfei Huang, Xuehan Wang, **Yaobin Ding***, Jia Huang*, Insight into singlet oxygen generation from metastable lattice of treated-NaBiO₃: A mechanism study, *Mater. Chem. Phys.* **2018**, 213, 389-399.
12. **Yaobin Ding**, Guangli Zhang, Xueru Wang, Lihua Zhu*, Heqing Tang*, Chemical and photocatalytic oxidative degradation of carbamazepine by using metastable Bi³⁺ self-doped NaBiO₃ nanosheets as a bifunctional material, *Appl. Catal. B: Environ.* **2017**, 202, 528-838.
13. Gang Nie, Jia Huang, Yezhou Hu, **Yaobin Ding***, Xiaoyan Han, Heqing Tang*, Heterogeneous catalytic activation of peroxy monosulfate for efficient degradation of organic pollutants by magnetic Cu⁰/Fe₃O₄ submicron composites, *Chinese J. Catal.* **2017**, 38, 227-239.
14. **Yaobin Ding**, Yufeng Ruan, Lihua Zhu*, Heqing Tang*, Efficient oxidative degradation of chlorophenols by using magnetic surface carboxylated Cu⁰/Fe₃O₄ nanocomposites in a wide pH range, *J. Environ. Chem. Eng.* **2017**, 5, 2681-2690.
15. **Yaobin Ding**, Ping Zhou, Heqing Tang*, Visible-light photocatalytic degradation of bisphenol A on NaBiO₃ nanosheets in a wide pH range: A synergistic effect between photocatalytic oxidation and chemical oxidation, *Chem. Eng. J.* **2016**, 291, 149-160.
16. **Yaobin Ding***, Hebin Tang, Shenghua Zhang, Songbo Wang, Heqing Tang*, Efficient degradation of carbamazepine by easily recyclable microscaled CuFeO₂ mediated heterogeneous activation of peroxy monosulfate, *J. Hazard. Mater.* **2016**, 317, 686-694.
17. **Yaobin Ding***, Wei Huang, Zhaoqing Ding, Gang Nie, Heqing Tang*, Dramatically enhanced Fenton oxidation of carbamazepine with easily recyclable microscaled CuFeO₂ by hydroxylamine: Kinetic and mechanism study, *Sep. Purif. Technol.* **2016**, 168, 223-231.
18. **Yaobin Ding**, Fan Yang, Lihua Zhu*, Nan Wang, Heqing Tang*, Bi³⁺ self doped NaBiO₃ nanosheets: Facile controlled synthesis and enhanced visible light photocatalytic activity, *Appl. Catal. B: Environ.* **2015**, 164, 151-158.
19. **Yaobin Ding**, Xiangli Xia, Yufeng Ruan, Heqing Tang*, In situ H⁺-mediated formation of singlet oxygen from NaBiO₃ for oxidative degradation of bisphenol A without light irradiation: Efficiency, kinetics, and mechanism, *Chemosphere*. **2015**, 141, 80-86.
20. Xinyue Zhang, **Yaobin Ding#**, Heqing Tang*, Xiaoyan Han, Lihua Zhu, Nan Wang*, Degradation of bisphenol A by hydrogen peroxide activated with CuFeO₂ microparticles as a heterogeneous Fenton-like catalyst: Efficiency, stability and mechanism, *Chem. Eng. J.* **2014**, 236, 251-262. **Highly Cited Paper**
21. **Yaobin Ding**, Lihua Zhu, Nan Wang, Heqing Tang*, Sulfate radicals induced degradation of tetrabromobisphenol A with nanoscaled magnetic CuFe₂O₄ as a heterogeneous catalyst of peroxy monosulfate, *Appl. Catal. B: Environ.* **2013**, 129, 153-162. **Highly Cited Paper**
22. **Yaobin Ding**, Lihua Zhu*, Aizhen Huang, Xiaorong Zhao, Xinyue Zhang, Heqing Tang*, A heterogeneous Co₃O₄-Bi₂O₃ composite catalyst for oxidative degradation of organic pollutants in the presence of peroxy monosulfate, *Catal. Sci. Technol.* **2012**, 2, 1977-1984.
23. **Yaobin Ding**, Lihua Zhu*, Jingchun Yan, Qingqing Xiang, Heqing Tang*, Spectrophotometric determination of persulfate by oxidative decolorization of azo dyes for wastewater treatment, *J. Environ. Monitor.* **2011**, 13, 3057-3063.

24. **Yaobin Ding**, Changzhu Yang, Lihua Zhu, Jingdong Zhang*, Photoelectrochemical activity of liquid phase deposited TiO₂ film for degradation of benzotriazole, *J. Hazard. Mater.* **2010**, *175*, 96-103.

25. 丁耀彬, 吕康乐, 雷鸣, 王成俊, 王松波, 基于OBE理念的环境科学专业人才培养的实践, *教育教学论坛*, **2020**, *27*, 286-288.

26. 丁耀彬, 吕琳, 污染控制系列课程教学内容和方法的研究, *广东化工* **2017**, *44*, 133-134.

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