

## 王成俊老师简介

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**研究方向：**污染物环境赋存、光化学转化、防治控制

**个人简介：**美国麻省大学 (*University of Massachusetts Lowell*) 化学专业哲学博士(*Ph.D*)；2008.05 - 2010.05美国Covidien公司R&D任*Research Chemist*；2010.09 - 2018.12温州大学化材学院教师；2019.01年至今在中南民族大学资源与环境学院教师，主要从事大气及地表水中微量污染物环境赋存、迁移转化、行为归趋、防治控制方面的教学科研工作，主持国家自然科学基金、省自然科学基金及其它科研或教改项目10余项，在*Environ. Pollut.*、*Sci. Total Environ.*、*Chemosphere*、*Chem. Eng. J.*、*Environ. Sci. Technol.*、*Water Res.*、*J. Environ. Sci.*、*Environ. Sci. Pollut. Res.*、*J. Hazard. Mater.* 等环境化学类期刊发表研究论文70余篇，曾获美国化学协会(ACS)颁发 *Graduate Student Award in Environmental Chemistry* (2008)、*Philip L. Levis Memorial Prize* (2008)、*American Institute of Chemists Award* (2006)等荣誉奖励。

### 主讲课程：

(本科生课程) 现代环境分析、文献检索与科技论文写作

(研究生课程) 环境污染化学、英文论文写作与投稿

### 主持科研项目：

- 1、省自然科学基金项目(Y17B070013)，2017-2019.
- 2、国家自然科学基金面上项目(21477088)，2015-2018.
- 3、浙江省钱江人才计划项目(2013R10067)，2014-2016.
- 4、国家自然科学基金青年基金(21207102)，2013-2015.
- 5、环境化学与生态毒理学国家重点实验室开放基金(KF2011-15)，2012-2013.

## 近年部分论文:

1. X. Jiao, C. He, H. Yu, J. He, **C. Wang**. Photo-generated hydroxyl radicals contribute to the formation of halogen radical leading to ozone depletion on and within polar stratospheric clouds surface. *Chemosphere*, **2022**, 132816.
2. A. Yusuf, Y. Sun, S. Liu, **C. Wang**, Y. Ren, H. Xiao, C. Snape, J. He. Study of the effect of ceria on the activity and selectivity of Co and Ce co-doped birnessite manganese oxide for formaldehyde oxidation. *Journal of Hazardous Materials*, **2022**, 424, 127583.
3. Y. Ding, L. Fu, X. Peng, M. Lei, **C. Wang**, J. Jiang. Copper catalysts for radical and nonradical persulfate based advanced oxidation processes: Certainties and uncertainties. *Chemical Engineering Journal*, **2022**, 427, 131776.
4. L. Famiyeh, K. Chen, J. Xu, Y. Sun, Q. Guo, **C. Wang**, J. Lv, Y. Tang, H. Yu, C. Snape, J. He. A review on analysis methods, source identification, and cancer risk evaluation of atmospheric polycyclic aromatic hydrocarbons. *Science of The Total Environment*, **2021**, 789, 147741.
5. D. Wan, H. Wang, V. Sharma, S. Selvinsimpson, H. Dai, **C. Wang**, Y. Chen. Mechanistic investigation of enhanced photoreactivity of dissolved organic matter after chlorination. *Environmental Science & Technology*, **2021**, 55, 8937-8946.
6. J. Xu, C. Jia, H. Yu, H. Xu, D. Ji, **C. Wang**, H. Xiao, J. He. Characteristics, sources, and health risks of PM<sub>2.5</sub>-bound trace elements in representative areas of Northern Zhejiang Province, China. *Chemosphere*, **2021**, 272, 129632.
7. D. Murindababisha, A. Yusuf, Y. Sun, **C. Wang**, Y. Ren, J. Lv, H. Xiao, G. Z. Chen, J. He. Current progress on catalytic oxidation of toluene: a review. *Environmental Science and Pollution Research*, **2021**.
8. K. Chen, S. E. Metcalfe, H. Yu, J. Xu, H. Xu, D. Ji, **C. Wang**, H. Xiao, J. He. Characteristics and source attribution of PM<sub>2.5</sub> during 2016 G20 Summit in Hangzhou: Efficacy of radical measures to reduce source emissions. *Journal of Environmental Sciences*, **2021**, 106, 47-65.
9. Y. Ding, X. Wang, L. Fu, X. Peng, C. Pan, Q. Mao, **C. Wang**, J. Yan. Nonradicals induced degradation of organic pollutants by peroxydisulfate (PDS) and peroxymonosulfate (PMS): Recent advances and perspective. *Science of The Total Environment*, **2021**, 765, 142794.
10. A. Yusuf, Y. Sun, Y. Ren, C. Snape, **C. Wang**, H. Jia, J. He. Opposite effects of Co and Cu dopants on the catalytic activities of birnessite MnO<sub>2</sub> catalyst for low-temperature formaldehyde oxidation. *Journal of Physical Chemistry C*, **2020**, 124, 26320-26331.
11. X. Jiao, Z. Li, J. He, **C. Wang**. Enhanced photodegradation of applied dithianon fungicides on plant leaves by dissolved substances in atmosphere under simulated sunlight. *Chemosphere*, **2020**, 254, 126807.
12. A. Yusuf, Y. Sun, C. Snape, J. He, **C. Wang**, Y. Ren, H. Jia. Low-temperature formaldehyde oxidation over manganese oxide catalysts: Potassium mediated lattice oxygen mobility. *Molecular Catalysis*, **2020**, 497, 111204.
13. D. Wan, H. Wang, I.P. Pozdnyakov, **C. Wang**, J. Su, Y. Zhang, Y. Zuo, D.D. Dionysiou, Y. Chen. Formation and enhanced photodegradation of chlorinated derivatives of bisphenol A in wastewater treatment plant effluent. *Water Research*, **2020**, 184, 116002.
14. L. Cheng, L. Zhang, Y. Zuo, **C. Wang**. Graphene oxide-based molecularly imprinted polymers modified with  $\beta$ -cyclodextrin for selective extraction of di(2-ethylhexyl)phthalate in environmental waters. *Journal of Separation Science*, **2019**, 42, 1248-1256.
15. Q. Yu, X. Xiong, J. He, Y. Zuo, Y. Chen, **C. Wang**. Photolysis of bis(2-ethylhexyl) phthalate at the presence of natural water photoreactive constituents under simulated-sunlight irradiation. *Environmental Science and Pollution Research*, **2019**, 26797-26806.
16. C. Ding, Q. Wu, X. Xiong, **C. Wang**. Molecularly imprinted polymers with dual template and bifunctional monomers for selective and simultaneous solid-phase extraction and gas chromatographic determination of four plant growth regulators in plant-derived tissues and foods. *Food Analytical Methods*, **2019**, 12, 1160-1169.
17. J. Xu, C. Jia, J. He, H. Xu, Y. Tang, D. Ji, H. Yu, H. Xiao, **C. Wang**. Biomass burning and fungal spores as sources of fine aerosols in Yangtze River Delta, China-using multiple organic tracers to understand variability, correlations and origins. *Environmental Pollution*, **2019**, 251, 155-165.

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