

## Assistant Professor

Macau University of Science and Technology

Macau Environmental Research Institute

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### Academic Qualification:

Ph.D in Environmental Sciences, Nankai University, Tianjin, China

MSc in Environmental Sciences, Nankai University, Tianjin, China

BSc in Environmental Sciences, Nankai University, Tianjin, China

### Teaching Area

Atmospheric Environment; Environment and Sustainable Development; Environmental Sciences

### Research Area

Atmospheric chemistry; Emission inventory; Air quality modeling and forecasting

### Working Experience

Assistant professor, Macau Environmental Research Institute, Macau University of Science and Technology (MUST) (Sep 2016 -);

Assistant professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (RCEES) (July 2011- Aug 2016).

### Research Grants

2022 Principle Investigator, “Emission Inventories of Atmospheric Pollutants and Greenhouse Gases in 2021 for Macau”, Macao Environmental Protection Bureau, 041/DPA/DPAA/2022

2021-2024 Principle Investigator, “Characterization, Causes and Source Apportionment of Photochemical Air Pollution in Macao”, The Science and Technology Development Fund (FDCT) of Macao, 0064/2020/A2

2020-2022 Principle Investigator, “Key Integrated techniques for detoxification of fly ash from municipal solid waste incinerators (MSWIs)”, Joint funding MOST-FDCT Project, 0009/2019/AMJ

2020-2021 Principle Investigator, “Emission Inventories of Atmospheric Pollutants and Greenhouse Gases in 2020 for Macau”, Macao Environmental Protection Bureau, 072/CON/DSPA/2020

2020 Principle Investigator, “Emission Inventories of Atmospheric Pollutants and Greenhouse Gases in Macau in 2019 for Macau”, Macao Environmental Protection Bureau, 006/CON/DSPA/2020

2019-2020 Principle Investigator, “Emission Inventories of Atmospheric Pollutants and Greenhouse Gases in 2018 for Macau”, Macao Environmental Protection Bureau, 006/CON/DSPA/2019

Representative publications (Complete publication refer to my webpage)

HaoYin, Youwen Sun\*, **Yan You\***, Justus Notholt, Mathias Palm, Wei Wang, Changgong Shan, Cheng Liu. Using machine learning approach to reproduce the measured feature and understand the model-to-measurement discrepancy of atmospheric formaldehyde. *Science of The Total Environment*, Volume 851, Part 2, 10 December 2022, 158271

Jia Jia\*, **Yan You\***, Shanlin Yang and Qingmei Shang. Analysis of the Effect of Economic Development on Air Quality in Jiangsu Province Using Satellite Remote Sensing and Statistical Modeling, *Atmosphere*. 2022 13(5), 697.

Xuan Zheng, Xiao He, **Yan You**, Shaojun Zhang, Bin Zhao, Xuan Wang, Guanghan Huang, Ting Chen, Yihuan Cao, Liqiang He, Xing Chang, Shuxiao Wang, Ye Wu. Comprehensive chemical characterization of gaseous I/SVOC emissions from heavy-duty diesel vehicles using two-dimensional gas chromatography time-of-flight mass spectrometry. *Environmental Pollution*, 2022, 35:119284.

Ting Chen, Xuan Zheng, Xiao He, **Yan You**, Guanghan Huang, Yihuan Cao, Liqiang He, Yanping Mao, Ye Wu. Comprehensive characterization of polycyclic aromatic hydrocarbon emissions from heavy-duty diesel vehicles utilizing GC × GC-ToF-MS. *Science of the Total Environment*, 2022,833: 155127.

Yongming Ju#, Dongyang Deng, Honghua Li#, **Yan You#**, Junqin Qiao, Lianghu Su, Weilong Xing, Mengyuan Liang, Dionysios D. Dionysiou. Rapid detoxification of dioxin and simultaneous stabilization of targeted heavy metals: New insight into a microwave-induced pyrolysis of fly ash. *Chemical Engineering Journal*,2021, 131939

Zhongcai Wang, Qingbin Song\*, **Yan You**, Huabo Duan, Wenyi Yuan, Jinhui Li. Identifying the lifecycle ODP and GWP effects of the refrigerants from household air-conditioners in Macau, *Environmental Impact Assessment Review*, Volume 90, September 2021, 106639

YongmingJu, KairuZhang, TiantianYang, DongyangDeng, JunqinQiao, PuWang, **Yan You**, Ling Du, Guihua Chen, Dorota Kołodyńska, Dionysios D. Dionysiou. The influence of a washing pretreatment containing phosphate anions on single-mode microwave-based detoxification of fly ash from municipal solid waste incinerators. *Chemical Engineering Journal*, 387, 1 May 2020, 124053

Bin Han\*, **Yan You\***, Yating Liu, Jia Xu, Jian Zhou, Jiefeng Zhang, Can Niu, Nan Zhang, Fei He, Xiao Ding, Zhipeng Bai. Inhalation cancer risk estimation of source-specific personal exposure for particulate matter-bound polycyclic aromatic hydrocarbons (PAHs) based on positive matrix factorization. 2019. *Environmental Science and Pollution Research*, 26(10): 10230–10239.

Journal Editorship

Early Career Board Member of Eco-Environmental Health

Personal Website