

## Yang Wu

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### Academic Qualification

**Ph.D. in** Environmental Science, Sun Yat-sen University, China

**MSc in** Environmental Engineering, University of the Chinese Academy of Sciences, China

**BSc in** Environmental Engineering, Beijing Institute of Technology, China

### Research & Teaching Area

Environmental chemical; Water Treatment; Environmental Risk assessment.

### Working Experience

Assistant Professor, Macau University of Science and Technology (MUST) (Sep 2020 -);

### Funding

The Synthesis of Nitrogen-doped Three-dimensional Graphene and Its Desalination and Micro-Organic Pollutant Removal Performance. (The Science and Technology Development Fund, Macau SAR) (0023/2021/A) (07/2021-07/2023)

### Academic Publications

#### Journal Papers (First or corresponding author)

- [1] Linheng Chen, Weixi Liu, **Yang Wu\***, Jumei Li\*, Yibing Ma. Identification and quantification of the combined phytotoxicity of one element with various valences: Cr (III) and Cr (VI) for barley root elongation as an example. *Journal of Hazardous Materials*, 2022: 128430.
- [2] **Yang Wu**, Chengqian Sun, Xi Zhang, Li Wang, Yang Bai\*, Peng Zhang\*. Spatio-temporal patterns and the fluxes of regional nutrient pollution in the Pearl River basin, China. *Polish Journal of Environmental Studies*, 2022, 5(31), 1-12.

- [3] Yangjian Zhou<sup>#</sup>, **Yang Wu**<sup>#</sup>, Yu Lei, Yanheng Pan, Shuangshuang Cheng, Gangfeng Ouyang, Xin Yang\*. Redox-active Moieties in Dissolved Organic Matter Accelerate the Degradation of Nitroimidazoles in SO<sub>4</sub><sup>-</sup>-based Oxidation. *Environmental Science & Technology*, 2021, 55(21): 14844-14853.
- [4] **Yang Wu**, Yu Wang, Tao Pao, Xin Yang \*. Oxidation of Tetrabromobisphenol A (TBBPA) by Peroxymonosulfate: the Role of In-situ Formed HOBr. *Water Research*, 2020, 169: 115202
- [5] **Yang Wu**, Yu Wang, Zhiqiang Lin, Yingying Wang, Yao Li, Shengwei Liu, Xuchun Gui\*, Xin Yang\*. Three-  
-Fe<sub>2</sub>O<sub>3</sub>/amino-functionalization carbon nanotube sponge for adsorption and oxidative removal of tetrabromobisphenol A. *Separation and Purification Technology*, 2019, 211: 359-367.
- [6] **Yang Wu**, Yu Wang, Rongliang Qiu, Xin Yang\*, Reductive Debromination and Advanced Oxidation of Polybrominated Diphenyl Ethers (PBDEs) Using Zero-Valent Iron (ZVI) Based Materials, *Progress in Chemistry*, 2018, 30: 420-428.
- [7] **Yang Wu**, Xiaoyong Zhou, Mei Lei\*, Jun Yang, Jie Ma, Tongbin Chen. Migration and transformation of arsenic: Contamination control and remediation in realgar mining areas. *Applied Geochemistry*, 2017, 77: 44-51
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. 2015, 36(8): 2964-2969.
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#### Co-author

- [1] Yu Wang, **Yang Wu**, Yafei Yu, Tao Pan, Dantong Li, Lambropoulou Dimitra, Xin Yang \*. Natural polyphenols enhanced the Cu(II)/peroxymonosulfate (PMS) oxidation: The contribution of Cu(III) and HO(\*). *Water Research*, 2020, 186, 116326.
- [2] Yu Wang, Tao Pan, Yafei Yu, **Yang Wu**, Yanheng Pan, Xin Yang\*. A novel peroxymonosulfate (PMS)-enhanced iron coagulation process for simultaneous removal of trace organic pollutants in water. *Water Research*, 2020, 185: 116136.
- [3] Jie Ma, Huaming Guo \*, Mei Lei, Xiaoyong Zhou, Fulan Li, Yu Tian, Rongfei Wei, Hanzhi Zhang, Xi Zhang, **Yang Wu**. Arsenic Adsorption and its Fractions on Aquifer Sediment: Effect of pH, Arsenic Species, and Iron/Manganese Minerals. *Water Air and Soil Pollution*, 2015, 226: 260-275.

#### Patent

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ZL 202010680216.2[P] 2020-07-15. ( )

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: ZL 201810267344.7[P] 2018-03-28. ( )