

Tianbo Xie

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Education Background

Beijing University of Technology, Beijing, China (Sept. 2017 - Jul. 2018 & Sept. 2020 - Jul. 2021)

University of Kentucky, Lexington, KY, United States (Aug. 2018 - May. 2020)

Degree: B.E. Environmental Engineering, GPA: 3.5 (BJUT, 100 credits), 3.9 (UKY, 73 credits)

Research Experience

Mechanistic Research on Specific Reactions

Advisor: Prof. Zhixiang Yu

College of Chemistry and Molecular Engineering, Peking University

Oct. 2021 - Mar. 2022

- Mechanism of an Oxidative Dearomatization Introduced [5+2] reaction
- Mechanism of a Lu [3+2] reaction
- Participated two graduate level courses(Theoretical Organic Chemistry & Quantum Chemistry)

Basic Operation Training & Combinatorial Biosynthesis of Indole diterpene

Advisor: Prof. Yuquan Xu

Biotechnology Research Institute, Chinese Academy of Agricultural Sciences

Apr. 2021 - Oct. 2021

- Constructed plasmids for microbial engineering
- Separated and identified compounds by HPLC and LC-MS

Heterogeneous Ni-Fe Catalyst Activating Peroxymonosulfate to Degrade Diuron

Advisor: Prof. Zhirong Sun

Faculty of Environment and Life, Beijing University of Technology

Dec. 2020 - Jun. 2021

- Built the kinetic model with GC-MS data
- Predicted degradation pathways and major intermediate products
- Estimated the practical potential of catalyst on Diuron removal from wastewater

Coursework

- **Environmental Engineering:** Water Treatment, Environmental Microbiology, Fluid Mechanics, Environmental Energy Consequences, Watershed Sediment, Stream Restoration, Water Resource Engineering
- **Food&Agriculture:** Food Processing, Food Fermentation, Food Chemistry, Basic Soil Science, Distillation, Wine& Brewing Science
- **Chemistry&Chemical Engineering:** Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, Biochemistry, Molecular Biology, Instrumental Analysis, Principles and Technology of the Fine Organic Synthesis, Environmental Catalysis, Membrane Separation Technology, Chemical Reaction Engineering

Qualifications

- Distilling, Wine and Brewing Program Certificate (Awarded by University of Kentucky)

Organizations & Volunteer

- **Volunteer Tutor**, Laoguandi High School, Chaoyang City, Liaoning province, China (Jul. 2019)
- **Internship**, Environmental Protection Bureau of Shenzhen Municipality, Shenzhen, China (Jun. 2019)

Meetings

- **The 10th Beijing Kein Molecular Dynamics and GROMACS Workshop**, Beijing Kein Research Center for Natural Sciences. Beijing, China, December 11st-14th, 2021
- **The 16th Beijing Kein Quantum Chemistry Workshop**, Beijing Kein Research Center for Natural Sciences. Beijing, China, October 3rd-7th, 2021

Miscellaneous

Wechat Official Account: 忧郁的南极 (Blue South Pole)

- **NaJian** (a short story collection, including 13 short stories, in memory of my high school life)
- **FeiHui** (a short story collection, including 7 short stories, discussing the phenomena in modern colleges)
- **Introduction to physical chemistry** (2 of 13 chapter released, aiming to lower the barrier of accessing Phys.Chem.)

QR Code of the official account:

