

Chenggong Jiang

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EDUCATION

- **University of Michigan (UMich), Ann Arbor, MI, United States** **Aug. 2022-Present**
Ph.D. student in Chemical Engineering
- **Tianjin University (TJU), Tianjin, China** **Sep. 2019 –Jul. 2022**
M.S. in Chemical Engineering, GPA: **3.82/4.00**,
Advisor: Prof. Jinlong Gong and Prof. Zhi-jian Zhao
- **National University of Singapore (NUS), Singapore** **Jan. 2019 – May. 2019**
Graduation project of undergraduates to overseas high-level universities Advisor:
Prof. Ning Yan
- **Tianjin University (TJU), Tianjin, China** **Sep. 2015 – Jul. 2019**
B.S. in Chemical Engineering, Cumulative GPA: **3.79/4.00**, Major GPA: **3.92/4.00**

RESEARCH EXPERIENCE

- **Research Assistant at Prof. Jinlong Gong's Research Group, TJU** **Sep. 2019 – Jul. 2022**
Research projects: Theoretical study on structure-activity relationship of transition metal oxides for propane dehydrogenation
- **Graduation Thesis at Prof. Ning Yan's Research Group, NUS** **Jan. 2019 – May. 2019**
Research projects: The synergistic catalytic effect of Ni-based bimetallic alloy for furfuryl alcohol from furfural
- **Research Assistant at Prof. Zhongyi Jiang's Research Group, TJU** **Jul. 2017 – Aug. 2018**
Research projects: High flux nanofiltration membrane for wastewater treatment.

PUBLICATIONS [[ORCID](#)] [[Google Scholar](#)]

- **Chenggong Jiang**, Hongbo Song, Guodong Sun, Xin Chang, Shican Wu, Shiyu Zhen, Zhi-Jian Zhao*, and Jinlong Gong*, "Data-driven Interpretable Descriptors for Structure-Activity Relation of Surface Lattice Oxygen on Doped Vanadium Oxides," *Angew. Chem. Int. Ed.* **2022**, in press (**Hot Article**). <https://doi.org/10.1002/anie.202206758>
- **Chenggong Jiang**, Xin Chang, Xianhui Wang, Zhi-Jian Zhao*, and Jinlong Gong*, "Enhanced C-H Bond Activation by Tuning the Local Environment of Surface Lattice Oxygen of MoO₃," *Chem. Sci.* **2022**, 13, 7468-7474. <https://doi.org/10.1039/D2SC01658C>

SCIENTIFIC CONFERENCES

- Paper reception and poster presentation, the 14th National Conference of Quantum Chemistry of Chinese Chemical Society, Shanghai, China. Oct. 2021

AWARDS AND HONORS

- First-class Academic Scholarship for Graduate Students, TJU **Jan. 2020**
- Outstanding undergraduate graduates of Tianjin University **Jun. 2019**
- Scholarship for merit student **Dec. 2018**
- LG Bohai scholarship **Oct. 2018**
- Honorable Mention in International Mathematical Contest in Modeling **Jul. 2018**

- Scholarship for merit student **Dec. 2017**
- Certificate of level 2- C ++ language programming in National Computer Rank Examination **Mar. 2017**
- Scholarship for outstanding student cadres **Dec. 2016**

SKILLS

Proficient in theoretical calculation or simulation software:

- Vienna Ab-initio Simulation Package (VASP)
- Materials Studio

Proficient in visualization and rendering software:

- Visual Molecular Dynamics (VMD)
- Jmol
- 3D Studio Max

Proficient in programming language:

- C++
- Python
- Bash

High-throughput workflow for automatic DFT calculation tasks and machine learning designed by me independently.

All codes are available on my personal GitHub website: <https://github.com/cgdd168/Successjiang/tree/main/Scripts>.

Familiar with theoretical calculation or simulation software:

- CP2K
- Gaussian
- ORCA