MingHang Zhang

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EDUCATION

Tianjin University September 2019 - July 2022

Master in Chemical engineering and technology Tianjin, China

- Cumulative GPA: 3.23 / 4.0 Average Scores: 82.36

North University of China September 2012 - June 2013

Bachelor in Chemical engineering and technology Shanxi, China

- Cumulative GPA: 3.73 / 4.0 Average Scores: 87.30

PUBLICATION

- **Analysis of the flow pattern and periodicity of gas-liquid-liquid three-phase flow in a countercurrent mixer-settler**, *Chinese Journal of Chemical Engineering* (the First author, In Process)
- **A high-performance thermal conductive and outstanding electrical insulating composite based on robust neuron-like microstructure**, *Chemical Engineering Journal* (the Second Author, 2021.07)

RESEARCH & PROJECTS

CFD simulation of multiphase flow in a special stirred tank

Major research interests during graduate studies 2019.09 - Present

- ANSYS software was applied to simulate the gas-liquid-liquid three-phase flow in a special stirred tank
- MATLAB software was applied to the data to do a fast Fourier transform to analyze its periodicity

Thermal field analysis of a new thermal conductive composite

Collaborative projects with classmates 2020.09 - 2021.07

- ANSYS software was applied to simulate the effect of this new thermal conductive composite on chip heat dissipation under natural convection, forced convection and water cooling conditions, respectively
- Simulated the effect of material microstructure on thermal conductivity

Sinopec Qilu Petrochemical Company annual output of 50,000 tons of methyl methacrylate project

China Undergraduate Chemical Contest in Engineering Design, **National First Prize** 2018.01 - 2018.08

- ASPEN Plus software was applied to simulate the industrial process of converting Isobutylene to MMA
- ANSYS Fluent software was applied to simulate the temperature distribution of the reactor

Simple 2-D CT system function implementation based on MATLAB programming

China Undergraduate Mathematical Contest in Modeling, **National Second Prize** 2017.04 - 2017.09

- MATLAB software was applied to calibrate the geometric parameters of the Computed Tomography (CT) system and to reconstruct the image using a filtered inverse projection algorithm

SKILLS

- Language: Fluent in written and spoken English: TOFEL 86
- Software & Programming: Proficient in ANSYS, MATLAB, ASPEN Plus; familiar with C++

SCHOLARSHIPS

- The Second-class Academic Scholarship of Tianjin University (total two times) 2020-2021
- The Special-class Freshman Scholarship of Tianjin University 2019
- The First-class Academic Scholarship of North University of China (total four times) 2016-2019
- National Encouragement Scholarship (total two times) 2017-2018