# Zhang Jingcheng

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## Education

## Sun Yat-sen University

Aug 2019 - Jun 2021

MS in Chemical Engineering

o **GPA:** 3.4/4.0

• Coursework: Electrochemical Measurements Techniques, Modern Catalysis Technology, Academic Criterion and Writing, Materials Surface and Interface Engineering

## Zhongkai University of Agriculture and Engineering

Sept 2015 - Jun 2019

BS in Chemical Engineering and Process

o **GPA:** 3.3/4.0

Coursework: Physical Chemistry, Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Principle of Chemical Engineering

#### Publications

- 3. Zhang J, Huang L, Fang T, Du F, Xiang Z, Zhang J, Chen R, Peljo P, Ouyang G, Deng H. Discrete Events of Ionosomes at the Water/Toluene Micro-Interface [J]. ChemElectroChem, 2022, 9(22): e202200624.

## Research Experiences

## Ionosome - Study of a Novel Type of Nanoemulsions

Zhuhai City

Graduate research — Advisor: Prof. Deng Haiqiang

Oct 2020 - Oct 2022

- Ionosomes are bilayer-encapsulated nanoscopic water droplets electrogenerated in situ without surfactants.
- Employed an electrochemical method to generate and detect anionic ionosomes at a miniaturized interface between two immiscible electrolyte solutions (ITIES).
- Utilized single-entity collisional electrochemistry to capture physicochemical data at the single entity level, demonstrating that anionic ionosome collision and fusion behavior follows the bulk electrolysis model and revealing critical underlying factors.
- Published a paper recognized as a Very Important Paper and selected for Editors' Choice Spotlight

in Chemistry Europe.

#### Faradaic Counter for Liposomes

Zhuhai City

Graduate research — Advisor: Prof. Deng Haiqiang

Oct 2019 - Jun 2021

- Single-particle collisional electrochemistry has emerged as a novel analytical method for measuring soft materials, such as liposomes.
- Developed a novel strategy that utilizes quantal current signals generated from the collisions and fusions of ion-loaded liposomes with micro-ITIES.
- Characterized individual liposomes and quantified their contents through current signal analysis at the single-particle level.
- o Co-authored a paper published in the journal Analytical Chemistry.

## Work Experiences

#### Guangzhou Southern Investment Group Co., Ltd

Guangzhou City

Solution Engineer

Jul 2022 - Aug 2024

- Provided renewable energy solutions to clients, including photovoltaic systems, energy storage systems, and EV charging station construction.
- Contributed to the development of ISO international standards:
  - ISO TC307/AHG 4: Blockchain and distributed ledger technologies DLT and carbon markets
  - ISO TC322/AHG 3: Sustainable finance FinTech in Carbon Markets
- Conducted surveys on the status of carbon markets as a Carbon Management Engineer and assisted in launching the first carbon accounting terminal based on blockchain technology.

\*Guangzhou Southern Investment Group Co., Ltd. was established in 1999 and is invested in by China Southern Power Grid Co., Ltd.

## Awards

\*From 2017 to 2021

- 1. National endeavor scholarship
- 2. Enterprise scholarship
- 3. Outstanding poster award in summer school of Xiamen University
- 4. Third-class scholarship of Sun Yat-sen University

## Skills & Interest

Software: Office, Endnote, Origin, Mindmap, Adobe premiere pro

Languages: Mardarin(native), English, Catonese, Java

Interest: Reading, Traveling, Movies, Dota, Running