

# Weiran Zhou

University of science and technology in Hefei

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Born: May 26, 2000—Jingzhou, China

Nationality: China

## Current position

University of science and technology, Hefei

## Areas of specialisation

Physics, Condensed physics

## Education

2017

UNDERGRADUATE in Physics, USTC

Overall GPA: 3.86/4.3

First year GPA: 3.79/4.3

Second year GPA: 3.92/4.3

scores of some course

class name	final score	GPA
total	90.1	3.89
Mathematical equation A	98	4.3
Probability and Mathematical Statistics	96	4.3
Classic Mechanics	93	4.0
Electronic Dynamics	98	4.3
Univariate calculus	91	4.0
Multivariate calculus	98	4.3

ENGLISH LEVEL

English	toefl	total: 101, reading: 30, listening: 26, speaking: 22, writing: 23
	Gre	total: 322, verbal: 152, math: 170, writing: 3

## Skill

C, python, java;

matlab, mathematica;

material studio

## Research experience

- October, 2019    Advisor, Professor Zeng, National microscale laboratory, USTC
- Synthesized silver phosphate of controllable shape.
  - Proposed and determined the catalytic properties of 100, 110, 111 planes are different.
  - Learn and use the Material Studio 8 (which includes Material Visualizer, Forcite, Castep and etc.) to conduct the simulation of absorption process at the surface of planes.
- June, 2019    Advisor, Professor Zeng, National microscale laboratory, USTC
- Began research in Electro-oxidation of propylene. Synthesized Silver halide of controllable shape.
  - Proposed and determined the catalytic properties of different planes are different, using nuclear magnetic resonance to determine the result and using Scanning Electronic Microscopy to characterize the structure of silver halide.
- May, 2019    Advisor, Professor Zeng, National microscale laboratory, USTC
- Began research in Electroreduction of CO<sub>2</sub>.
  - Synthesized the In particles and other combined materials used as catalyst for electroreduction of CO<sub>2</sub>, using the acid-treated carbon as the capping agent and InNO<sub>3</sub> as metal precursor.
  - Learned the use of Gas Chromatograph (GC) and Electrochemical Workstation.
- March, 2019
- join Professors Zeng's Group

## Grants, honours & awards

- 2019
- Suzhou Institute of Nano Physics Prize
- 2018
- Outstanding Student Silver Award

## Publications & talks

### JOURNAL ARTICLES

- 2019    Author(s): Kong, Xiangdong; Ke, Jingwen; Liu, Yan; Li, Qiuyao; Zhou, Weiran; Wang, Yibo; Yang, Zhengwu; Yan, Wensheng; Geng, Zhigang; Zeng, *pin-State-Dependent Activity towards CO<sub>2</sub> Electroreduction*