# **Xiang Shi**

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## **EDUCATION**

## **University of Science and Technology of China (USTC)**

Hefei, China

School of Chemistry and Materials Science

Sept. 2020 – present

Major in Physical chemistry at Lu Jiaxi Talent Program (B.S. expected)

Overall GPA: 3.86 / 4.30 (90.16 / 100) Major rank: 2/28 Rank (chemical school): 3/97

TOEFL: 109 (R 29; L 29; S 24; W 27)

GRE: 330 (V 160; Q 170)

Awards:

X National Scholarship 2021(top1%)

\*\*Minglong Huang Scholarship 2022 (top5%)

\*\*Talent award, Institute of Chemistry, Chinese Academy of Sciences 2022 (top5%)

## **PUBLICATION**

Wenjie Wang<sup>+</sup>, Tianpei Zhou<sup>+</sup>, Chun Wang, **Xiang Shi**, Shihao Liu, Qinghua Liu, Youxue Xie, Hu Feng, Yang Wang, Guixin Ma, Chen Ye, Wensheng Yan, Yangchao Tian, Yi Xie, Wangsheng Chu \*and Changzheng Wu\*, Sulfur-induced dynamic reconstruction of iron-nitrogen species for highly active neutral oxygen reduction reactions, *Science China Chemistry*, 2022 <a href="https://doi.org/10.1007/s11426-022-1384-1">https://doi.org/10.1007/s11426-022-1384-1</a>

Wenjie Wang<sup>+</sup>, **Xiang Shi**, Lin Wang, Yi Xie<sup>\*</sup> and Changzheng Wu<sup>\*</sup>, MOF-derived Fe-Ce Single-Atom Pairs Doped Electrocatalyst for Hydrogen-Oxygen Fuel Cells (*submitted*)

#### RESEARCH EXPERIENCE

# <u>Lab experience at Dept. of Chemistry, iChEM (Collaborative Innovation Center of Chemistry for Energy Materials)</u>

# Single Atom Catalyst@Piezocatalyst &Pyrocatalyst

Sep. 2022 – present

Undergraduate researcher advised by Prof. Yuen Wu

Working as principal researcher, in charge of the whole project

## Lab experience at Dept. of Chemistry

# Research into Modified Layered BiTeBr and its Thermoconductivity Behavior

*Jun.* 2022 – present

Undergraduate researcher advised by Prof. Changzheng Wu

- Determined the favorable intercalation and exfoliation conditions
- Modification of single-layer BiTeBr to BiTeSe and BiTeO

# MOF-derived Fe-Ce Single-Atom Pairs Doped Electrocatalyst for Hydrogen-Oxygen Fuel Cells

Undergraduate researcher advised by Prof. Changzheng Wu

Jun. 2021 – Jun. 2022

- Undertook synthesis and characterization of Ce-Fe single atom pairs @ZIF
- Performed Fuel cell testing

# Planar FeS1N3 Sites with Adjacent Sulfur Anions Realizing Superior Neutral Zinc-air Batteries \*Performance\*\* \*Apr. 2021 – Jun. 2021\*\*

Undergraduate researcher advised by Prof. Changzheng Wu

- Undertook synthesis and characterization of S-doped-FeN4
- Performed ORR testing

### SUMMER RESEARCH EXPERIENCE

#### **Online Research Program at UT Austin**

Undergraduate researcher advised by Prof. Guihua Yu

Jun. 2022 - Sep. 2022

• Studied hyrdrogel, Li+ storage, Ni-N-P for HER

## ADDITIONAL INFORMATION

- Common characterization like TEM, UV-Vis, SEM, EDS, XRD, XPS, IR, XAFS
- Operation of electrochemical testing station and fuel cell system
- MATLAB, Origin, Photoshop, Premier, Audition, Latex

## **EXTRACURRICULAR ACTIVITIES**

- Chair of the Student Union of the School of Chemistry and Materials Science at USTC
- Assistant leader of USTC Chorus