Qingsong Lei

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EDUCATION

NANJING UNIVERSITY

NANJING, CHINA

College of Engineering and Applied Sciences

Bachelor of New Energy Science and Engineering

SHANGHAI JIAO TONG UNIVERSITY

Exchange Student

Sep.2018-June.2022(Expected) SHANGHAI, CHINA Jul.2019-Aug.2019

EXPERIENCE

Prof. Huigang Zhang's Laboratory

NANJING, JIANGSU

Learning use of laboratory equipment

August 2020 – October 2020

- Topic: Gold-supported nitrogen-doped strontium titanate for photocatalytic degradation of VOCs
 - Successfully prepared gold-loaded nitrogen-doped strontium titanate
 - Characterize structure and morphology
 - Comparison proves photocatalytic activity and stability

Prof. Ye Zhang's Group

NANJING, JIANGSU

September 2020 –

Basic operation & Own project
Topic: Enabling stable zinc anode via in situ deposition on CNT-based thin films

- Material preparation, literature review, experimental data recording, instrument control and operation
 - Make the CNT tube into a network structure as a polar fluid
 - Plasma treatment of electrodes to obtain hydrophilicity
- Topic: Electrolyte additives to improve the performance of zinc-ion batteries
 - Preparation of electrolytes with different concentration gradients
 - Tested the battery performance and measured good cyclability and stability
- Topic: Designing polymer glue for ultrahigh zinc utilization to make high-performance Zn-ion batteries
 - Angewandte Chemie (Submitted)
- Topic: Exploration of cathode materials for zinc-ion batteries
 - Ongoing research

HONORS

•	State grants	Sep.2019
•	National Inspirational Scholarship	Oct.2019
	American Alumni Fund (1%)	Nov.2019
	Outstanding Class Leader	May.2020
	People's Scholarship	Nov.2020

ACTIVITIES

• Served as leader of the New Energy Science and Engineering major

2019-2020

- Organized and carried out group activities for many times. Co-organize events with other major students
- Won the title of outstanding team leader (one only in the grade)
- Organized a society research to Liangshan, Xichang

2019

- Conducted this survey as the team leader and successfully wrote research papers
- Participated in the defense of Zheng Gang's overseas scholarship

2020

Passed the on-campus defense successfully

LANGUAGES & SKILLS

- Languages: English (Fluent), IELTS 7.0
- Advanced skills in Microsoft Office, Land, Auto CAD, Origin, Python/C, Familiar with Adobe Photoshop, 3D Max
- Good at sports and music and represent the college in the competition as an athlete

PUBLICATIONS

- Yiding Jiao, Fangyan Li, Xin Jin, <u>Qingsong Lei</u> et al. "Designing polymer glue for ultrahigh zinc utilization to make high-performance Zn-ion batteries", *Angew. Chem. Int. Ed.* (Submitted)
- Yuchen Liu, <u>Qingsong Lei</u>, Huanli Zhu. "Research on the mechanism of reflow furnace temperature curve based on steady
 -state heat conduction equation", *Encyclopedia Forum*. 2021 Oct ISSN2096-3661.