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Jian-Sian (Albert) Li

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Summary

5+ years of experience in semiconductor fabrication, characterization and simulation, including metrology, photolithography, wet/dry etching, polishing, thin-film deposition, band alignment and TCAD. First-author paper*20, co-author paper*40, citation*424, conference*11, awards*7

EDUCATION

University of Florida

Florida, USA

Ph.D. in Chemical Engineering

Aug. 2021 - Dec. 2024

Topic: Fabrication and characterization of Ultra-wide bandgap semiconductor

• Holding several world records for rectifiers

National Taiwan University (NTU)

Taipei, Taiwan

B.S. in Chemical Engineering

Sep. 2011 – Jun. 2015

M.S. in Chemical Engineering

Sep. 2015 - Jun. 2018

• Thesis: Transient electrophoresis of a dielectric circular cylinder with arbitrary double-layer thickness

EXPERIENCE

NAND Metrology Development Engineer (Intern)

Micron Technology (Boise, Idaho)

May 2024 - Aug 2024

- Project 1: Establishment of non-destructive detection on under-etched NAND pillars
- Project 2: Modify integrated metrology tool on chemical-mechanical polishing (CMP) machine *Received return offer

Research Assistant

Advanced Research Center for Green Materials Science and Technology College of Engineering, NTU (Taipei, Taiwan)

Dec 2019 - Aug 2021

- Project 1: High-performance organic field effect transistors (OFETs) and polymer solar cells (PSCs).
- Project 2: Development of High Performance Solid State Polymeric Electrolytes (SPEs).

Research & Development (Intern)

Daxin Materials Corporation (Taichung, Taiwan)

Jun 2016 - Aug 2016

- Project: Establishment of basic formula for aqueous pigments dispersion
 - *Established a systematic research model of experiments and theoretical calculations, which is still used in the company today

SKILLS

Equipment:

Plasma-enhanced CVD, e-beam evaporator, RIE/ICP dry etch, wet etch, sputter deposition, mask making, photolithography, ellipsometer, SEM, XPS, UV/Vis spectrometer, dicing machine, wire-bonding, polisher

Computational tools:

Python, C++, Matlab, DFT, TCAD, NanoDiffract, CasaXPS, SRIM, Layout Editor, JMP

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AWARDS

2024 ECS Conference The Electrochemical Society in San Francisco • Student presentation award	2024
Research Excellence Award Chemical Engineering, University of Florida	2023
2023 CS Mantech Conference Compound Semiconductor Manufacturing Technology • First award in Poster Competition	2023
Bruce Deal & Andy Grove Young Author Award The Electrochemical Society	2022
2022 FLAVS Conference American Vacuum Society in Florida • Third award in Poster Competition	2022
Doctoral Excellence Fellowship Chemical Engineering, University of Florida • Doctoral Excellence Fellowship	2021
FFHMT 2018 International Conference on Fluid Flow, Heat and Mass Transfer • The youngest oral presenter	2018

Conference

Oral Presentation

- 1. 82st Device Research Conference (DRC), College Park, MD, June, 2024.
- 2. 244th the Electrochemical Society (ECS), San Francisco, CA May, 2024.
- 3. Florida-American Vacuum Society (FLAVS), Gainesville, FL March, 2024.
- 4. American Institute of Chemical Engineers (AICHE), Orlando, FL Nov, 2023.
- 5. 243rd the Electrochemical Society, Boston, MA May, 2023.
- 6. 242nd the Electrochemical Society, Atlanta, GA Oct, 2022.
- 7. International Conference on Fluid Flow, Heat and Mass Transfer (FFHMT'18), Niagara Falls, Canada June, 2018.

Poster Presentation

- 1. 81st Device Research Conference (DRC), Santa Barbara, CA June, 2023.
- 2. International Conference on Compound Semiconductor Manufacturing Technology (CS Mantech), Orlando, FL May, 2023.
- 3. IEEE Nuclear and Space Radiation Effects Conference (NSREC) 2022, Provo, UT July, 2022.
- 4. FL-American Vacuum Society (FLAVS) 2022, Orlando, FL May, 2022.







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