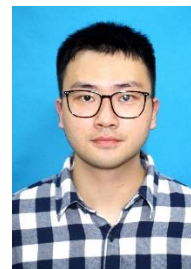


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Education

- 2023-2026 PhD student in Chimie ParisTech-PSL, Paris, France
Supervisor: Frédéric LABAT
- 2020-2023 Master's Degree in Electronic Science and Technology
Jiangxi Science & Technology Normal University, Nanchang, Jiangxi, China
Supervisor: Zihua Xiong
- 2015-2019 Bachelor's Degree in Communication Engineering
Zhejiang GongShang University, Hangzhou, Zhejiang, China

Research Experience

- 2023- PhD topic
Modeling the properties of van der waals heterostructures with strong interlayer coupling
- 2020-2023 Master's thesis topic
Study on physical behaviors of indium atoms in quantum wells of GaN-based yellow LEDs with high power efficiency

Research interests

Development and application of the first-principles calculations that provide a detailed description of various properties of the alloys, interfaces, and defects.

Publications

- [1] **Y. Zhang**, et al, Thermodynamic origin of high efficiency in long-wavelength InGaN-based LEDs on Si substrates, J. Phys. Chem. C, 2023.
- [2] X. L. Zhu, **Y. Zhang**, et al, Unexpected enhanced thermal conductivity of $Ga_xIn_{1-x}Sb$ ternary alloys, J. Phys. Chem. C, 2023.
- [3] C. Kang, **Y. Zhang**, et al, Role of silicon on the conductivity GaSb surface: A first principle study, Vacuum, 2023
- [4] L. Liu, Q. Q. Feng, **Y. Zhang**, et al, Efficiency enhancement mechanism of piezoelectric effect in long-wavelength InGaN-based LED, Phys. Chem. Chem. Phys., 2023.

Awards & Honors

- 2021-2023 Graduate Student Scholarship, Jiangxi Science & Technology University
- 2023 Outstanding Postgraduate Student, Jiangxi Science & Technology University