

YIFAN GAO

Tel: +8613394064826

Correspondence Address: 422 Siming S Rd, Si Ming district, XiaMen, FuJian, China, 361005

E-mail: bigtigeraowu110@gmail.com / 19720202202651@stu.xmu.edu.cn

EDUCATION

Xiamen University

B.S. in Physics

Advisor: Prof. Cheng Li

GPA*: Overall 3.1/4.0, Major 3.6/4.0

Sep. 2020 - Present

Xiamen, Fujian, China

Transcript has been submitted to **World Education Service for evaluation, the GPA here is calculated manually and will be updated once the evaluation result come out. Besides, please refer to [my website](#) for the additional statement of the unstable academic performance.*

RESEARCH EXPERIENCE

Research assistant

Si-based Optoelectronic Material & Device Research Group, Xiamen University

Feb. 2022 - Present

Xiamen, Fujian, China

- *Design of MoSe₂/GeSn/Ge N-P-N Heterojunction Phototransistor*
 - Theoretically assisted with the data curating and simulation refinements.
 - Practical research engagement in lab devices and techniques.
 - Manuscript **has been submitted** to *Advanced Optical Materials* for peer review.
- *Design of p-GaSe/n-Si van der Waals Heterojunction Phototransistor with a Schottky collector*
 - Idea conceptualization, device design along with simulation using Silvaco and Sentaurus TCAD.
 - Extensive practical experiences relating to device fabrication and characterization.
 - Scientific manuscript drafting, emendation and responding to peer review.

PUBLICATION

- **Yifan Gao**, Xinwei Cai, Shuo Li, Qiang Wu, Guangyang Lin, Cheng Li; High responsivity p-GaSe/n-Si van der Waals heterojunction phototransistor with a Schottky barrier collector for ultraviolet to near-infrared band detection. Appl. Phys. Lett. 21 August 2023; 123 (8): 081102. <https://doi.org/10.1063/5.0155877>

TEACHING EXPERIENCE

Teaching Assistant

Xiamen University

Feb. 2022 - Feb. 2023

Xiamen, Fujian, China

- Assisted the teaching for courses **Advanced Technology in Physics**(2022-2), **Principles of Laser**(2023-1) and **Thermodynamics and Statistical Physics A** (2023-1).
- Held mid-term and end-term seminars in **Principles of Laser** for 70 students.

AWARDS

- *Silver Medal Winner in Xiamen University Physics Competition*, Xiamen University, Summer 2021.