Zijing Zhang

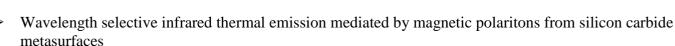
Email: zijing_zhang@hust.edu.cn

School: HuaZhong University of Science and Technology(ranks 8 in China)
Major: Optoelectronic Information and Engineering (ranks top3 in China)

Grade: senior year of undergraduate Graduate year:2019

Adcademic performance: 88.3/100 3.91/4

Research Project 1 at Georgia Institution of Technology (2018.7.1~2018.11.1): Supervisior: Adibi Ali, Professor, School of Electrical and Computer Engineering



➤ 2D material (Graphene, TMDCs, etc.) based integrated optoelectronics, high Q-resonators like nanodisks

Research Project 2:

- A design of broadband achromatic dielectric metalens for linear polarization in the near-infrared spectrum
- Broadband ultracompact polarimeters in infrared spectrum
 In National Laboratory for optoelectronics, Wuhan Supervisor: Prof.Zhenyu Yang
 In cooperation with Prof. Isabelle Staude in Universität Jena, Germany

Research Project 3:

- photonic intergrated devices design used for all-optical signal processing
- Continuously-tunable photonic fractional Hilbert Transformer based on a high birefringent planar Bragg grating in waveguide

In cooperation with the Optoelectronics Research Centre, University of Southampton, UK

Publications:

- "Ultra-wideband and continuously-tunable fractional photonic Hilbert transformer based on a single high-birefringence planar Bragg grating" first-author submitted to Optical Express (under revision before acceptance)
- "A design of broadband achromatic dielectric metalens for linear polarization in the near-infrared spectrum" *first-author* submitted to Optical Letters for review
- "Micro-machining for TE/TM mode phase matching in high-birefringence planar waveguide and implementation in continuously-tunable Fractional Hilbert transform" *first-author* submitted for publication to POEM, held by OSA in November 2018

Exchange Program

University of California, San Diego 's visiting student in 2017 Fall with CSC scholarship

English Proficiency

TOEFL test 101 (reading28 listening24 speaking22 writing27) GRE test V154+Q167

Awards

2018 Mathematical Contest In Modelling held by USA Meritorious Prize(the first prize)

Software Skills

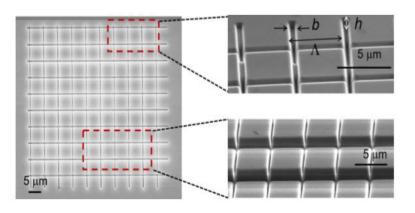
FDTD, Matlab, ZEMAX, COMSOL, C, Python, verilog, Altium Designer, Rsoft, LATEX, solidworks

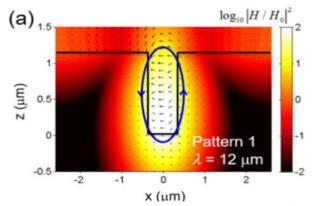
Experiemental Skills

• Waveguide Fabrication, characterization, and measurement of spectrual response, etc. Platform techniques for integrated optoelectronics applications. Laser system experiments, calibrating, aligning and measurements.

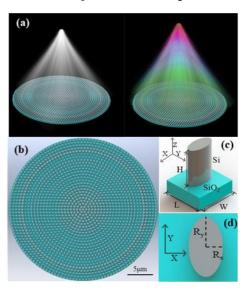


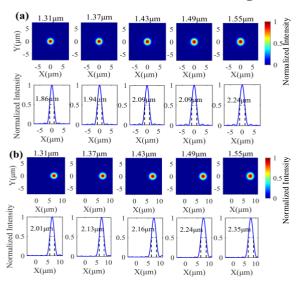
Research project 1:The design and simulation of thermal emitter metasurface based on SiC



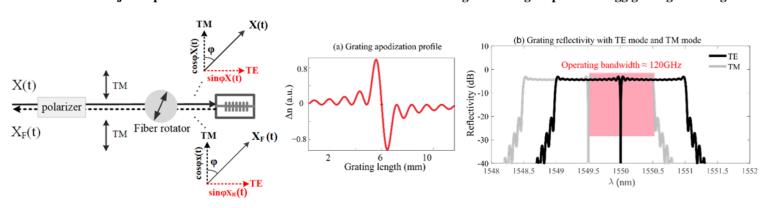


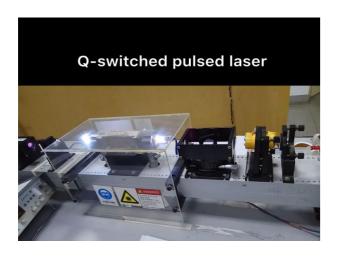
Research Project 2: the development of broadband achromatic metalens in the near-infrared region





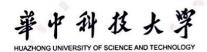
Research Project3: photonic fractional Hilbert Transformer based on a high birefringent planar Bragg grating in waveguide











UNDERGRADUATE ACADEMIC RECORD

Name: Zhang Zijing Student ID: U201513976 Department: School of Optical and Electronic Information

Major: Opto-electronic Information Science and Engineering

Date of Entrance: 01/09/2015 Length of Schooling: 4 years



| Course | | Result | Course | Credit Result | |
|---|---------|--------|--|----------------|----|
| 2015-2016 1st Semester | | to " | Electronic Circuit Design, Test Experiment | 1.0 | 85 |
| Physical Education(I) | 1.0 | 75 | (I) | | |
| Engineering Graphics (I) | 2.5 | 90 | Optics Project | 1.0 | 81 |
| Military Training | 1.0 | 90 | Quantum Mechanics(II) | 3.0 | 82 |
| Fundamentals of Ideological and Ethical Standards & Law | 2.5 | 87 | General Introduction to Mao Zedong Thought and Socialist | 3.5 | 89 |
| Calculus (I) | 5.5 | 87 | Theory with Chinese Characteristics | | 90 |
| Introduction to Information Technology | 2.0 | 90 | Analog Electronic Technology(II) | 3.5 | 89 |
| Chinese Chinese | 2.0 | 77 | Digital Circuit and Logic Design (I) | 3.5 | 83 |
| | 0.5 | 86 | Taekwondo (Elementary) | 1.0 | 84 |
| Program and Course Orientation | | 93 | Topics on the History of Republic of China(1912-49) | 2.0 | 60 |
| Comprehensive English (1) | 3.5 | 93 | 2017-2018 1st Semester | | |
| 2015-2016 2nd Semester | - | | Photoelectric Detection and Signal Processing | 3.0 | 90 |
| Programming in C | 3.5 | 79 | Physical Optics | 4.5 | 93 |
| Physics (I) | 4.0 | 95 | Optical-Physics Lab | 0.8 | 93 |
| Probability Theory and Mathematical Statistic (III) | 2.5 | 88 | 2017-2018 2nd Semester | | |
| History and Development of Top American Universities | 2.0 | 81 | Solid State Physics | 3.0 | 88 |
| Volleyball (Elementary) | 1.0 | 78 | Fiber Optics | 2.5 | 90 |
| Social Practice in Ideological and Political Education | 1.5 | 80 | Laser Principles and Technology | 4.0 | 94 |
| Calculus (I) | 5.5 | 91 | Thermodynamics & Statistical Physics | 2.0 | 84 |
| Experiment of Physics(I) | 1.0 | 86 | Situation and Policy | 2.0 | 87 |
| Linear Algebra | 2.5 | 91 | | 2.0 | |
| Project Management(General Elective) | 2.0 | 72 | Credits:120.1 Cumulative Average Gr | ade:88 | .3 |
| Survey of Modern Chinese History | 2.0 | 89 | GPA: 3.91 | | |
| Comprehensive English(II) | 3.5 | 89 | | | |
| 2016-2017 1st Semester | | | | | |
| College Physics (II) | 4.0 | 96 | The Market of the Comment of the Com | | |
| Mass Aerobics (Elementary) | 1.0 | 94 | IFMC. | | |
| Circuit Theory (III) | 5.5 | 88 | | | |
| Complex Analysis and Integral | 2.5 | 82 | | | |
| Transformation | | | | | |
| Introduction to History of Architecture | 2.0 | 83 | | | |
| Military Theory | 1.0 | 87 | A CONTRACTOR OF THE CONTRACTOR | 3 | |
| Basic Principles of Marxism | 2.5 | 82 | | | |
| Mathematical Equations and Special Functions(I) | 2.5 | 89 | | | |
| Experiment of Physics(II) | 0.8 | 83 | | | |
| Signals and Linear System | 3.5 | 91 | | | |
| Applied Optics | 3.0 | 91 | DO | | |
| Applied Optics Lab | 0.5 | 75 | | | |
| Appreciation of Chinese and Foreign Art | 2.0 | 77 | | | |
| 2016-2017 2nd Semester | 2.0 | 1.1 | | est. | |
| Semiconductor Optoelectronics | 2.5 | 87 | 4 10 | d _k | |
| Electrodynamics | 3.0 | 96 | 9 | | |
| Floatrical Chille Dreatice | | 84 | | | |
| Circle Taria I I | 1.0 | 04 | | | |

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Provost:

Circuit Testing Lab

Huazhong University of

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