Xin Jing

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EDUCATION

University of Michigan Ann Arbor **Ann Arbor, MI**
Master of Science in Electrical and Computer Engineering *April 2024*
Coursework: Machine Learning, Computer Vision, Intermediate Programming

Nankai University **Tianjin, China**
Bachelor of Engineering in Material Chemistry *June 2019*
Coursework: Classic Statistics, MATLAB Application, Data Structures and Algorithms

PROJECTS

University of Michigan Ann Arbor **Ann Arbor, MI**
Course Projects *January 2023 - present*

- Image Colorization
  - To add color to greyscale images via classification
- Real-time Object Detection
  - To improve the performance of YOLO in detecting small objects and cluttered scenes
- Restaurant Recommendation Website
  - To provide personalized recommendations and search based on a user's preferences
- iTunes Store Search Tool
  - Set up an interactive command line search tool for iTunes Store

PUBLICATIONS

1. **Xin Jing**, Zhuang-Zhang, Tian-Yang Chen, Jing-Shan Luo*, **A Review of Promising Inorganic Hole Transporting Materials for Perovskite Solar Cells**, ***Energy Technology***, 2023
2. Huanhuan Wang, Zhuang Zhang, Jovana V Milić, Liguo Tan, Zaiwei Wang, Rong Chen, **Xin Jing**, Chenyi Yi, Yi Ding, Yuelong Li, Ying Zhao, Xiaodan Zhang, Anders Hagfeldt, Michael Grätzel, Jingshan Luo*, **Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics**, ***Advanced Energy Materials***, 2021

RESEARCH

Nankai University / Institute of Optoelectronic Thin Film Devices **Tianjin, China**
Research Assistant *June 2019 - July 2022*
Independent Research on Inorganic Hole-Transporting Layer of Perovskite Solar Cells

- Fabricated inorganic hole-transporting layer with a series of methods
- Solved interfacing problems between perovskite and hole-transporting layer using novel solid-air reaction method

Nankai University / Institute of New Energy Materials Chemistry **Tianjin, China**
Project Leader *June 2016 - April 2019*
Functional Polymers to Improve the Interface Characteristics of Perovskite Solar Cells

- Fabricated organic-inorganic hybrid perovskite solar cells with other two members
- Increased cell efficiency by 11% through smoothing thin-film morphology with micro-doping various polymers

INTERNSHIP

Tianjin Vocational Skills Training Center **Tianjin, China**
3D-print model designer *February 2019 - March 2019*

- Builded 3D models with software *Solidworks* and 3D printers

ACTIVITY

Student Union in School of Materials Science and Engineering **Tianjin, China**
Minister *September* 2015 - *December2016*

- Led a 16-member team to operate the college's new media platform with subscribers from 0 to 144
- Awarded as ‘Top Ten Ministers of Nankai University College Student Union’, ranking 2/23

PROGRAMMING

Python (Intermediate), Julia (Intermediate), MATLAB (Intermediate), C++ (Basic)