

Xin Jing

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EDUCATION

University of Michigan Ann Arbor

Master of Science in Electrical and Computer Engineering

Coursework: Machine Learning, Computer Vision, Intermediate Programming

Ann Arbor, MI

April 2024

Nankai University

Bachelor of Engineering in Material Chemistry

Coursework: Classic Statistics, MATLAB Application, Data Structures and Algorithms

Tianjin, China

June 2019

PROJECTS

University of Michigan Ann Arbor

Course Projects

- Image Colorization
 - Add color to greyscale images via classification
- Real-time Object Detection
 - Improved the performance of YOLO with attention mechanism
- Restaurant Recommendation Website
 - Scraped and visualized restaurant data for different cities in US
- iTunes Store Search Tool
 - Set up an interactive command line search tool for iTunes Store

Ann Arbor, MI

January 2023 - present

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*, 2022
2. Huanhuan Wang, Zhuang Zhang, Jovana V Milić, Liguang 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

Research Assistant

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

Tianjin, China

June 2019 - July 2022

Nankai University / Institute of New Energy Materials Chemistry

Project Leader

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

Tianjin, China

June 2016 - April 2019

INTERNSHIP

Tianjin Vocational Skills Training Center

3D-print model designer

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

Tianjin, China

February 2019 - March 2019

ACTIVITY

Student Union in School of Materials Science and Engineering

Minister

- 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

Tianjin, China

September 2015 - December 2016

PROGRAMMING

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