



Education

Master of Science (M.Sc.) in Quantum Optics Graduated: June 2024	Shandong University (Project 985), China GPA: 90.7/100
Bachelor of Science (B.Sc.) in Physics Graduated: June 2021	Shandong University (Project 985), China GPA: 88.01/100



Research

Kui An, Zi-lei Liu, Ting Zhang. *et al.* Efficient Characterizations of Multiphoton States with an ultra-thin optical device. **Nature Communications** 15, 3944 (2024).

Kui An. Quantum Machine Learning with Linear Optics. Oral Presentation at Progress in Electromagnetics Research Symposium (**PIERS**), Prague, Czech Republic (2023).

Xiao-Xu Fang, Kui An, Bai-Tao Zhang, Barry C. Sanders, and He Lu. Maximal coin-position entanglement generation in a quantum walk for the third step and beyond regardless of the initial state. **Physics Review A** 107, 012433 (2023).

Jing Sun, Guan-qun Yu, Kui An. *et al.* Microwave-induced high-energy sites and targeted energy transition promising for efficient energy deployment. **Frontiers in Energy** 16, 931–942 (2022).



Skills

Experimental Skills:

- Setting up sophisticated optical experimental platforms
- Utilizing neural networks in experiment

Programming (skilled in Python):

- Parallel processing
- Code optimization for high performance
- 3D graph animation
- Digital image processing

Software Proficiency:

COMSOL, Zemax, Wolfram Mathematica, Solidworks, AutoCAD, Illustrator, Origin

Language:

English (IELTS 6.5)



Honors and Awards

Academic First-Class Scholarship, Shandong University (top 5%) (2017-2018)

Third Prize, National College Student Energy Conservation and Emission Reduction Social Practice and Technology Competition (2020)

Outstanding Graduate of Shandong University (2021)



Research Interests

Optics, experimental photonics, computational imaging