Kui An

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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
- Programming instruments 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, Blender, AutoCAD, Illustrator

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