

Curriculum Vitae of MIN XIAO

Current Address

Office Address: Department of Physics, University of Arkansas
Fayetteville, Arkansas 72701
Office Phone: (479) 575-6568
Fax Number: (479) 575-4580
e-mail Address: mxiao@uark.edu

Educational

B.S. in Physics (1982) Nanjing University, P.R. China

Ph.D. in Physics (May, 1988), University of Texas at Austin
Thesis Supervisor: Professor H. Jeff. Kimble
Thesis Title: Quantum Fluctuations in Nonlinear Optics

Employment

Postdoctoral Associate, Massachusetts Institute of Technology June 1988-August 1990
Assistant Professor of Physics, University of Arkansas, Fayetteville August 1990-July, 1995
Associate Professor of Physics, University of Arkansas, Fayetteville July, 1995-July, 1998
Professor of Physics, University of Arkansas, Fayetteville August, 1998-July, 2004
Distinguished Professor of Physics, University of Arkansas, Fayetteville,
August, 2004---present
21st Century Endowed Chair Professor in Nanotechnology August, 2006---present

Research Interest

Laser physics, quantum optics, atomic physics, nonlinear optics, optical properties of nanostructures in semiconductors, and device physics.

Done research work (both theoretical and experimental) on fundamental quantum optics, quantum statistics, light-matter interactions, atomic coherence in multi-level systems, semiconductor lasers, applications of quantum states of light, applications of optical spectroscopy, microstructures in single optical crystals, optical properties of solid materials, optical properties of single quantum dots/rods, and so on.

Total external funding of more than \$6,500,000 in the past ten years.

Published more than 170 refereed journal papers in high quality physics journals, such as Physical Review Letters, Physical Review A, Physical Review B, Applied Physics Letters, Optics Letters, NanoLetters, Physics Letters, and so on.

More than 120 presentations in international and national conferences and workshops including invited talks.

One US patent was granted on October 13, 1998 (US patent #5,821,546, Xiao, et al, "Method and System for Fecal Detection")

Honors and Awards

- Coming to the United States through the CUSPEA (China--United States Physics Examination Application) program September, 1982
- GPA at the University of Texas at Austin: 4.0/4.0 Sept., 1982--May, 1988
- University Fellow, University of Texas at Austin 1986--1987
University Fellow, University of Texas at Austin 1987--1988
- Graduate Development Award, University of Texas at Austin 1987
- Adjunct Professor at the Institute of Opto-Electronic Research in Shanxi University, the People's Republic of China May, 1991
- Research Assignment, College of Art and Sciences, University of Arkansas Fall, 1994
- National Science Foundation Young Investigator Award July, 1994
- Invited to participate in the Ninth Symposium of Frontiers of Sciences organized by the National Academy of Sciences at Irvine, California November, 1997
- Alumni Distinguished Faculty Achievement Research Award, Alumni Association, University of Arkansas November, 1998
- Master Researcher Award, Fulbright College of Arts and Sciences, University of Arkansas April, 2002
- Fellow, Optical Society of America 2004
- Fellow, American Physical Society 2004
- Changjiang Lecture Scholar, State Key Laboratory of Quantum Optics and Quantum Devices, Shanxi University, China 2005---
- Appointed 21st Century Endowed Chair Professor in Nanotechnology, University of Arkansas August, 2006

Professional Services

- Chaired a session at the Third International Workshop on Squeezed States and Uncertainty Relations, University of Maryland, August, 1993.
- Organization Committee of the Fourth International Conference on Squeezed States and Uncertainty Relations, Taiyuan, China, June, 1995.
- Editorial Board member of the Journal "Acta Sinica Quantum Optica", August, 1995 ---.

Editorial Board member of the journal “Frontiers of Physics”, China, 2007---

Guest Editor, <<Chinese Science Bulletin>>, January, 2003---

Member, Quantum Optics Sub-Committee, Quantum Electronics and Laser Science Conference, May, 2002.

Chaired a session on “Atomic Coherence, Darkstate and Fast Light”, at the Quantum Electronics and Laser Science Conference”, May 19-24, 2002, Long Beach, California.

Chair, in the Atomic Physics and Modern Optics Division of the Conference of Physics in the 21st Century, June, 2002, Beijing, China.

Chaired a session on “Quantum Optics and Cavity QED”, in DAMOP’2003

Co-Chair, Quantum Optics Sub-Committee, 2004’ International Quantum Electronics Science Conference, May, 2004

Program Co-Chair, 2005’ Quantum Electronics and Laser Science Conference

General Co-Chair, 2007’ Quantum Electronics and Laser Science Conference

Professional Society Affiliations

Fellow, the Optical Society of America

Fellow, the American Physical Society