

# Quanxi JIA

Fellow of AAAS, ACerS, APS,  
IEEE, MRS, NAI, and LANL

Dept. of Materials Design & Innovation  
136 Bell Hall  
University at Buffalo  
Buffalo, NY 14260

Tel: (716) 645-1157  
E-mail: qxjia@buffalo.edu

---

## EDUCATION

- 09/1991      **Ph.D.** in Electrical & Computer Engineering, University at Buffalo – the State University of New York (SUNY), Buffalo, NY
- 04/1985      **M.S.** in Electronic Engineering, Xian Jiaotong University, Xian, China
- 07/1982      **B.S.** in Electronic Engineering, Xian Jiaotong University, Xian, China

## PROFESSIONAL EXPERIENCE

- 11/2021 - present    SUNY Distinguished Professor, University at Buffalo, Buffalo, NY
- 08/2016 - present    Scientific Director, New York State Center of Excellence in Materials Informatics, University at Buffalo, Buffalo, NY
- 08/2016 - present    Empire Innovation Professor and National Grid Professor, Department of Materials Design & Innovation, University at Buffalo, Buffalo, NY
- 02/2016 - 08/2016    Director of the Center for Integrated Nanotechnologies (CINT), Los Alamos National Laboratory (LANL), Los Alamos, NM
- 04/2015 - 02/2016    Co-Director of CINT, LANL, Los Alamos, NM
- 04/2015 - 08/2016    Group Leader of MPA-CINT, Division of Materials Physics and Applications (MPA), LANL, Los Alamos, NM
- 06/2014 - 04/2015    Acting Co-Director of CINT, LANL, Los Alamos, NM
- 03/2010 - 02/2023    Foreign Visiting Professor, Konkuk University, Seoul, Korea
- 12/2009 - 06/2014    Thrust Leader, CINT, LANL, Los Alamos, NM
- 09/2003 - 09/2017    Laboratory Fellow (currently, retired Fellow), LANL, Los Alamos, NM
- 10/1997 - 12/2009    Team Leader, Superconductivity Technology Center, LANL, Los Alamos, NM
- 01/1996 - 09/2017    Technical Staff Member, Superconductivity Technology Center, LANL, Los Alamos, NM
- 08/1993 - 01/1996    Director's Postdoctoral Fellow, LANL, Los Alamos, NM
- 04/1993 - 12/1993    Visiting Associate Professor, Kumamoto University, Japan
- 09/1991 - 08/1993    Research Associate, University at Buffalo, Buffalo, NY
- 09/1988 - 08/1991    Teaching Assistant, University at Buffalo, Buffalo, NY
- 02/1988 - 08/1988    Research Associate, University at Buffalo, Buffalo, NY
- 12/1987 - 01/1988    Assistant Professor, Xian Jiaotong University, Xian, China
- 05/1985 - 11/1987    Research Associate, Xian Jiaotong University, Xian, China

## FUNDED PROJECTS, PATENTS, PUBLICATIONS, & PRESENTATIONS

- More than 45 funded projects (as PI) with a total of over \$62M
- 50 US patents issued
- More than 500 peer-reviewed journal articles with a total citation of over 29,300 and an *h*-index of 85 from *Google Scholar*
- More than 120 invited conference presentations and seminars
- 11 book chapters and 6 co-edited proceeding books
- More than 70 refereed/un-refereed proceeding articles

## RESEARCH INTERESTS

- Synthesis, characterization, and application of nanostructured multifunctional materials
- Study of the processing-structure-property relationships of thin films and heterostructures such as nanocomposite and multilayer films
- Development of novel processes for the growth of electronic materials with controlled microstructures and desired functional properties
- Development and investigation of superconducting films for quantum devices and coated conductors
- Monolithic integration of materials with complimentary functionalities for microelectronic and electro-optic devices, research on advanced semiconductor devices and materials
- Development and study of energy materials and devices

## HONORS & AWARDS

- SUNY Distinguished Professor (2021)
- *Fellow* of the National Academy of Inventors (2018)
- *Fellow* of the Institute of Electrical and Electronics Engineers (IEEE) (2017)
- *Fellow* of the Materials Research Society (MRS) (2014)
- *Fellow* of the American Association for the Advancement of Science (AAAS) (2011)
- Postdoctoral Distinguished Mentor Awards, LANL (2010)
- *Fellow* of the American Ceramic Society (ACerS) (2010)
- Adjunct Professor, State University of New Mexico, Las Cruces, NM (2010 - 2016)
- *Fellow* of the American Physical Society (APS) (2009)
- The Outstanding Women's Career Development Mentoring Awards, LANL (2008)
- The Federal Laboratory Consortium for Technology Transfer Awards (2008)
- Adjunct Professor, Xian Jiaotong University, Xian, China (2008 - 2015)
- Asian-American Engineer of the Year Award (2005)
- *Laboratory Fellow* of Los Alamos National Laboratory (2003)
- R&D 100 award - Flexible Superconducting Tape (2003)
- Los Alamos National Laboratory Achievement Award (2000)
- R&D 100 award - Underground Radio (1998)
- Listed in Marquis *Who's Who*
- Listed in *Who's Who in America*
- Listed in *Who's Who in Science and Engineering*
- Listed in *American Men and Women of Science*
- Award for Excellence in Industrial Partnerships at LANL (1996)
- National Link Foundation Fellowship Award at SUNY (1990 - 1991)
- Distinguished Teaching Award at Xian Jiaotong University (1986 - 1987)

## PROFESSIONAL SERVICES

- Principal Editor of *Journal of Materials Research*, Cambridge Core (2018 - present)
- Editorial Board of *Nano Convergence*, Springer (2013 - present)
- Editorial Board of *Trans. Electrical & Electronic Materials*, Korean IEEE (2010 - present)
- Editor-in-Chief of *Materials Research Letters*, Taylor & Francis Group (2013 - 2023)

- Editorial Board of *Ferroelectrics Letters*, Taylor & Francis Group (2013 - 2020)
- Editorial Board of *Journal of Semiconductors*, IOP Publishing (2010 - 2016)
- Editorial Oversight Committee, *Journal of Electronic Materials*, Springer, (2017 – 2019)
- Meeting Chair, 2018 MRS Spring Meeting & Exhibit, Phoenix, AZ
- Chair of Award Committee of the Electronics Division, ACerS (2007 - 2008)
- Executive Committee of the Electronics Division, American Ceramic Society (ACerS): Secretary-Elect (2008 - 2009); Secretary (2009 - 2010); Vice-Chair & Program Chair (2010 - 2011); Chair-Elect (2011 - 2012); Chair (2012 - 2013)
- LANL Fellows Organization: Secretary (2009 - 2010); Deputy Coordinator (2010 - 2011); Coordinator (2011 - 2012)
- Review Panel of NSF MRI/IMR, ERC, DMR/ECCS proposals
- Proposal reviewer for NSF, BES/DOE, SBIR, and other funding agencies
- External reviewer for the Korea Science Prizes
- Organizing committees of over 25 international Symposia/conferences
- Reviewer for the scientific journals: *Nature*, *Science*, *Nat. Mater.*, *Nat. Nanotechnol.*, *Nat. Commun.*, *Adv. Mater.*, *Adv. Functional Mater.*, *Appl. Phys. Lett.*, *APL Mater.*, *J. Appl. Phys.*, *J. Vac. Sci. Technol.*, *J. Mater. Res.*, *Integrated Ferroelectrics*, *Ferroelectrics*, *IEEE Trans. Appl. Supercond.*, *IEEE Electron Devices Lett.*, *Phil. Mag. B*, *Physica B*, *Physica C*, *J. Am. Ceramic Soc.*, *Thin Solid Films*, *J. Phys. Chem. B*, *Chem. Mater.*, *Chem. Soc. Rev.*, *J. Am. Chem. Soc.*, *Nano Lett.*, *ACS Nano*, *Small*, *Angew. Chem. Int. Ed.*, *J. Phys. Chem.*, *Phys. Status Solidi (a)*, *Appl. Surf. Sci.*, *Electrochem. Solid-State Lett.*, *Int. J. Photoenergy*, *Supercond. Sci. Technol.*, *J. Crystal Growth*, *Crystal Growth & Design*, and *Rev. Sci. Instrum.*

#### **TEACHING AND MENTORING**

- Supervised and mentored 40 postdoctoral and graduate students
- Supervised 12 college and high-school interns

#### **MEMBERSHIPS**

American Physical Society (APS)  
 American Ceramic Society (ACerS)  
 Materials Research Society (MRS)  
 Institute of Electrical & Electronics Engineers (IEEE)  
 American Association for the Advancement of Science (AAAS)  
 National Academy of Inventors (NAI)