



ASU MBE Optoelectronics Group

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### Short Bio

#### Education:

1991: Dr. rer. nat. in Physics, Max-Planck Institute for Solid States and University of Stuttgart, Germany.

#### Academic Experience:

7/2014-present: Associate Dean for Research, Ira A. Fulton Schools of Engineering, ASU  
 10/2005-present: Director, Center for Nanophotonics, Arizona Institute of Nanoelectronics, ASU.  
 5/2004-present: Director, Center for Semiconductor Optical Refrigeration, ASU.  
 8/2006-present: Affiliated Professor, Department of Physics, ASU.  
 8/2006-present: Affiliated Professor, School of Materials, ASU.  
 2000-present: Professor, Electrical Engineering Department, ASU.  
 1996-2000: Associate Professor, Electrical Engineering Department, ASU.  
 1991-1993: Postdoctoral Assistant Research Engineer, NSF QUEST Center, University of California at Santa Barbara.

#### Research Areas:

- Semiconductor Materials
- Molecular Beam Epitaxy
- IR Photodetectors and Lasers (Solar cells, type-II superlattice and VCSELs)
- Optical Properties of Quantum Wells and Superlattices
- Theoretical Modeling of Semiconductor Devices

#### Scientific and Professional Societies:

##### Fellow

- Institute of Electrical and Electronics Engineers (IEEE)
- Optical Society of America (OSA)

#### Publications:

Edited **3** books/proceedings, **3** book chapters, **160** refereed journal papers, **91** refereed proceeding papers, **62** invited talks, and **261** contributed conference presentations, **9** issued US patents and **9** provisional patent applications