

# Curriculum Vitae of Qingteng Zhang

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## Degrees & Experience

- 2015.5 – Present Postdoc in Advanced Photon Source, Argonne National Laboratory  
2012.10 – 2015.5 Postdoc in Material Science and Engineering, University of Wisconsin - Madison  
2009.8 - 2012.10 Ph.D. in Applied Physics, University of South Florida  
2005.9 - 2009.7 B.Eng. in Microelectronics, Xi'an Jiaotong University

## Publications

**Qingteng Zhang** and I. Ponomareva, “Depolarizing field in temperature-graded ferroelectrics from atomistic viewpoint”, *New Journal of Physics* **15** 043022 (2013)

Pice Chen, Margaret P. Cosgriff, **Qingteng Zhang**, Sara J. Callori, Bernhard W. Adams, Eric M. Dufresne, Matthew Dawber, and Paul G. Evans, “Field-Dependent Domain Distortion and Interlayer Polarization Distribution in PbTiO<sub>3</sub>/SrTiO<sub>3</sub> Superlattices”, *Physical Review Letters*, **110**, 047601 (2013)

**Qingteng Zhang**, R. Herchig, and I. Ponomareva, “Nanodynamics of Ferroelectric Ultrathin Films”, *Physical Review Letters*, 107, 177601 (2011);

**Qingteng Zhang** and I. Ponomareva, “Microscopic Insight into Temperature-Graded Ferroelectrics”, *Physical Review Letters*, 105, 147602 (2010);

ZHANG Wen, HE Yongning, **ZHANG Qingteng**, CUI Wuyuan, HOU Xun, “Zinc Oxide Nanowire Arrays Grown On Differently Treated Seeding Substrates And Their Ultraviolet Photodetect Properties”, *Journal of the Chinese Ceramic Society*, 38(1), 13 (2010);

ZHANG Wen, **ZHANG Qingteng**, HE Yongning, “Study on Controllable Growth and Quantum Confined Effect of ZnO Nanowire Membranes”, *Journal of Xi'an Jiaotong University*, 44(4), 83 (2010).

## Conferences

“Spatial Variation and Temporal Fluctuation of Domains at Equilibrium in PbTiO<sub>3</sub>/SrTiO<sub>3</sub> Superlattice”, APS Conference, Denver, 2014;

“Thermal Fluctuation and Field-induced Pinning of Serpentine Striped Domains in a PbTiO<sub>3</sub>/SrTiO<sub>3</sub> Superlattice”, *Fundamental Physics of Ferroelectrics and Related Materials*, Washington, 2014;

“Coherent x-ray scattering from striped serpentine nanodomains in a ferroelectric/dielectric superlattice”, MRS Conference, Baltimore, 2013;

“Spatial Topology and Switching Dynamics of Nanodomains in Ferroelectric/Dielectric Superlattices”, invited talk at Brookhaven National Laboratory, New York, 2013

“Coherent X-ray Diffraction from Striped Nanodomain in a  $\text{PbTiO}_3/\text{SrTiO}_3$  Superlattice”, APS Conference, Baltimore, 2013;

“Film-Thickness Dependence of the Relaxation of the Ultrafast Photo-induced Strain in  $\text{BiFeO}_3$ ”, Fundamental Physics of Ferroelectrics and Related Materials, Ames, 2013;

“Dynamics of Nanowalls in Ferroelectric Ultrathin Films”, APS Conference, Boston, 2012;

“Domain Wall Dynamics of Ferroelectric Ultrathin Films”, Fundamental Physics of Ferroelectrics and Related Materials, Chicago, 2012;

“Polarization Response to Temperature Gradient in Perovskite Ferroelectrics Using First-principle-based Method”, APS Conference, Dallas, 2011;

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### **Education & Research**

2012.10-Present

**UNIVERSITY OF WISCONSIN, MADISON**

**Postdoc Research Associate – Madison, Wisconsin**

- ◆ Worked on synchrotron X-ray coherent scattering and ultra-fast dynamics of ferroelectric perovskite thin films.

2009.8-2012.10

**UNIVERSITY OF SOUTH FLORIDA**

**Ph.D. student, research & teaching assistant - Tampa, FL**

- ◆ Worked on the non-equilibrium properties of ferroelectric perovskites through high-performance parallel computing;
- ◆ Received positive evaluation (4.6/5) from the undergraduate students in the general physics lab course.

2005.9-2009.7

**XI'AN JIAOTONG UNIVERSITY**

**Undergraduate student, lab assistant**

- ◆ Worked in the Electronic Materials Research Laboratory in Xi'an Jiaotong University as a lab assistant and helped with the measurement and data analysis;
- ◆ Successfully fabricated ultrathin (diameter < 20 nm) ZnO nanowires on ITO and Si substrates and detected the ultra-violet absorption peaks;

### **References**

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