Curriculum Vitae for Tingting Qi

Contact Information

Department of Materials Science and Engineering
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Education

Since May 2011	• Stanford University, Stanford, CA ○ Postdoctoral Scholar in Materials Science
March 2011 – August 2004	• University of Pennsylvania, Philadelphia, PA ○ PhD of Physical Chemistry
September 1999 – June 2004	• University of Science and Technology of China, Hefei, China ○ Bachelor of Science in Chemistry

Publications

1. T. Qi, I. Grinberg, and A. M. Rappe, First-principles investigation of the highly tetragonal ferroelectric material $Bi(Zn_{1/2}Ti_{1/2})O_3$. *Phys. Rev. B* (2009) **79**, 094114.
2. T. Qi, Y.-H. Shin, K.-L. Yeh, K. A. Nelson, and A. M. Rappe, Collective coherent control: Synchronization of polarization in ferroelectric $PbTiO_3$ by shaped THz fields. *Phys. Rev. Lett.* (2009) **102**, 247603.
3. T. Qi, I. Grinberg, and A. M. Rappe, Correlations between tetragonality, polarization, and ionic displacement in $PbTiO_3$-derived ferroelectric perovskite solid solutions. *Phys. Rev. B* (2010) **82**, 134113.
4. T. Qi, S. V. Levchenko, J. W. Bennett, I. Grinberg, and A. M. Rappe, New prospects for high-performance SONAR, chemical sensor and communication device materials. *IEEE Proceedings*, HPCMO UGC: May 2010.
5. T. Qi, I. Grinberg, and A. M. Rappe, Band-gap engineering via local environment in complex oxides. *Phys. Rev. B* (2010) **83**, 205115.
6. T. Qi, I. Grinberg, J. W. Bennett, Y. –H. Shin, A. M. Rappe, K.-L. Yeh, and K. A. Nelson, Studies of perovskite materials for high-performance storage media, piezoelectric, and solar energy conversion devices. 2010 DoD HPCMP Users Group Conference, 249-58 (2010)
7. T. Qi, M. T. Curnan, J. W. Bennett, and A. M. Rappe, First-principles study of band gap engineering via oxygen vacancy doping in perovskite $ABB'O_3$ solid solutions. *Phys. Rev. B* (2011) **84**, 245206.
8. D. Daranciang, M. J. Highland, H. Wen, S. M. Young, N. C. Brandt, H. Y. Hwang, M. Vattilana, M. Hicoul, F. Quirin, J. Goodfellow, T. Qi, *et al.*, Ultrafast photovoltaic response in ferroelectric nanolayers. (accepted by *Phys. Rev. Lett.* in Jan 2012)

Conference Oral Presentations

1. *American Physical Society March Meeting*, Dallas, TX (March 2011)
2. *Ferroelectric Workshop,* Gaithersburg, MD (January 2011)
3. *Materials Research Society Spring Meeting*, San Francisco, CA (April 2010)
4. *American Physical Society March Meeting*, Portland, OR (March 2010)
5. *American Physical Society March Meeting*, Pittsburgh, PA (March 2009)
6. *Ferroelectric Workshop*, Colonial Williamsburg, VA (February 2009)
7. *American Physical Society March Meeting*, New Orleans, LA (March 2008)

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Conference Poster Presentations

1. *Electronic Structure Workshop*, Austin, TX (June 2010)
2. *U.S. Navy Workshop on Acoustic Transduction Materials and Devices*, State College, PA (May 2009)
3. *American Chemistry Society Fall Meeting*, Philadelphia, PA (August, 2008)
4. *Ferroelectric Workshop*, Colonial Williamsburg, VA (February 2008, February 2007)
5. *Electronic Structure Workshop*, Raleigh, NC (June 2007)

Awards and Financial Support

American Physical Society Graduate Student Travel Award, March 2009