

CURRICULUM VITAE

Zuo-Guang Ye

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EDUCATION

- Ph.D., Laboratoire de chimie du solide du CNRS, Université de Bordeaux I, France, 1988.
- B.Sc., Polytechnic University of Hefei, China, 1983.

ACADEMIC EXPERIENCE

- Professor, Department of Chemistry, Simon Fraser University, 2003 – present.
- Chair, Department of Chemistry, Simon Fraser University, May 2009 – April 2014.
- Associate Chair, Department of Chemistry, SFU, Sept. 1, 2004 – Aug. 31, 2006
- Director of Solid-State System at 4D LABS, SFU, 2005 – 2007.
- Associate Professor, Simon Fraser University, Canada, 2000 – 2003.
- Assistant Professor, Simon Fraser University, Canada, 1997 – 2000.
- Associate Professor, Niigata University, Japan, 1996 – 1997.
- Lecturer / Researcher, University of Geneva, Switzerland, 1991 – 1996.
- Post-doc Fellow, University of Geneva (*Prof. H. Schmid*), Switzerland, 1989 – 1990.

MAJOR AWARDS/DISTINCTIONS

- Recipient of "*The Canadian Society for Chemistry's 2021 John C. Polanyi Award*"
- *Distinguished SFU Professor*, 2020.
- *Fellow*, The Royal Society of Canada, 2019.
- Recipient of "*The 2019 IEEE Robert E. Newnham Ferroelectrics Award*".
- *Fellow*, Institute of Electric and Electronic Engineers (IEEE), 2017 – Present.
- Recipient of *The American Ceramics Society's 2015 Spriggs Phase Equilibria Award*.
- Recipient of the "*2014 IEEE Ferroelectrics Recognition Award*".

RESEARCH INTERESTS

- ✓ Synthesis and characterization of the structure and physical properties of ferroic materials, including (i) high-performance relaxor-based piezoelectric single crystals, (ii) single crystals of lead zirconate/titanate (PZT), (iii) relaxor ferroelectrics, (iv) multiferroics, and (v) lead-free piezo-/ferroelectric materials, and (v) halide perovskites, photovoltaic and optoelectronic materials.

RESEARCH ACCOMPLISHMENTS

Research Publications (See "Publications" for more details):

- Peer-Reviewed Research Papers: **430** (incl. Science, PNAS, Nat. Mater., Nat. Commun., JACS)
- Review Articles/Book Chapter: **17**
- Book (ed.): **1**
- Number of citations by others: **13244**; H-Index: **57** (as of 18 Feb 2021. Source: *web of science, core collection*).

Research Presentations:

- Invited Talks: **274** (incl. 6 plenary/keynotes) + 40 by my collaborators at conferences
- Contributed Oral & Poster Presentations: **400+** (mostly by my students, PDFs or collaborators)

TEACHING

- Courses Taught: CHEM-122, CHEM-232/230, CHEM-340, CHEM-440/740, CHEM-481/482/483

PROFESSIONAL ACTIVITIES

- Chair, *International Piezoelectric Single Crystal Specification Standard Committee*, 2007 – pres.
- Editor, *J. Advanced Dielectrics*, World Scientific Publishing, 2010 – present.
- Chair, *Standing Committee for Standards*, The Ultrasonics, Ferroelectrics & Frequency Control Society (UFFC), Institute of Electric and Electronic Engineers (IEEE), 2012 – present.
- Founding Member, *International Advisory Committee for the International Workshops on Relaxor Ferroelectrics (IWRf)*, July 2013 - present.
- Member, *Intl. Advis. Cmte. for the Intl. Meetings on Ferroelectricity (IMF)*, Sept. 2013 - present.
- General Chair, *The 20th IEEE International Symposium on Applications of Ferroelectrics / The International Symposium on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials*, ISAF-PFM-2011, Vancouver, July 24 – 27, 2011.
- Conference Chair, *The 97th Canadian Chemistry Conference & Exhibition (CSC-2014)*, Vancouver, Canada, June 1 – 5, 2014.
- Conference Chair, *The 13th International Symposium on Ferroic Domains and Micro- to Nano-scopic Structures (ISFD-13)*, Vancouver, Canada, Oct. 2 - 6, 2016.

- Conference Chair, *The 6th International Workshop on Relaxor Ferroelectrics (IWRF-6)*, Vancouver, Canada, July 17 - 21, 2018.
- Member, Administrative Committee, UFFC Society, IEEE (2012 - present).
- Member, Ferroelectrics Standing Committee, UFFC Society, IEEE (2006 - present).
- Senior Member, Institute of Electric and Electronic Engineers (IEEE) (2008 - present).
- Chair, International Piezoelectric Single Crystal Specification Standard Committee (2007 - present).
- Conference Chair, *The 13th International Symposium on Ferroic Domains and Micro- to Nano-scopic Structures (ISFD-13)*, Vancouver, Oct. 2 - 6, 2016.
- General Chair, *The International Workshop on Lead-free and Novel Ferroic*, Xi'an, China, Oct. 16 - 18, 2015.
- Conference Chair, *The 97th Canadian Chemistry Conference (CSC)*, Vancouver, June 1-5, 2014.
- General Chair, *The International Workshop on High-Performance Piezo-/Ferroelectric Single Crystals*, Xi'an, China, May 19 - 21, 2013.
- General Co-Chair, *The 20th IEEE International Symposium on Applications of Ferroelectrics / The International Symposium on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, ISAF-PFM-2011*, Vancouver, July 24- 27, 2011.
- General Chair, *The International Symposium on Structure-Property Relations in Relaxor Ferroelectrics*, Xi'an, China, Nov. 1 - 3, 2011.
- Associate Editor, *IEEE Trans. Ultrasonics, Ferroelectrics & Frequency Control* (2008, 2011-2012). ✓ Editor, *J. Adv. Dielectrics* (2009 -).
- Guest Associated Editor, *J. Appl. Phys.* (2012).
- Plenary Speaker at the *Joint 12th International Meeting on Ferroelectrics / 18th International Symposium on Applications of Ferroelectrics (IMF-12/ISAF-18)*, Xi'an, China, July 6 – 9, 2009.
- Plenary Speaker at the *Second International Symposium on Innovations in Advanced Materials for Optics & Electronics (SIAMO-E-2)*, Shanghai, China, July 6 – 9, 2008.
- Member, International Advisory Committee for the International Symposia on Ferroic Domains and Micro- to Nano-scopic Structure (ISFDs) (since 2000).
- Member, International Advisory Board for *The International Conference in Materials & Technology, CIMTEC-2010*, Grosseto, Tuscany, Italy, June 2010.
- Member, International Advisory Committee, *International Symposia on Micro- and Nano-scale Domain Structuring in Ferroelectrics (ISDS')*, Ekaterinburg, Russia (since 2005).
- Member, International Advisory Committee, *2nd International Symposium on Innovations in Advanced Materials for Optics & Electronics (ASIAMOE-2)*, July 6–9, 2008, Shanghai, China.
- Member, Program Committee for the *14th International Conference on Crystal Growth*, August 2004, Grenoble, France.
- Organizer & Chair, *Symposium on "Relaxor Ferroelectrics"* at the *12th International Meeting on Ferroelectrics / The 18th IEEE International Symposium on Applications of Ferroelectrics*, Xi'an, China, Aug. 23 – 27, 2009.

- Co-Organizer and Chair, Symposium on New Crystals and Applications, The 7th Pacific Rim Conference on Ceramics & Glasses, Nov. 11 – 14, 2007, Shanghai, China.
- Co-Organizer and Chair, Symposium on Advances in Electronic Ceramics, The 8th Pacific Rim Conference on Ceramics & Glasses, May 31 – June 9, 2009, Vancouver, Canada.
- Organizer & Chair, Symposium on “Relaxor Ferroelectrics” at The 12th International Meeting on Ferroelectrics / The 18th IEEE International Symposium on Applications of Ferroelectrics, Xi’an, China, Aug. 23 – 27, 2009.
- Co-Organizer of the U.S. Office of Naval Research Meeting on “Future Directions in Materials for Electromechanical Transducers”, July 2004, Arlington, VA, USA.
- Session Chair at major ferroelectrics-related conferences, including (i) The 8th Asian Meeting on Ferroelectrics (AMF-8), Pattaya, Thailand, Dec. 2012; (ii) The 21st IEEE International Symposium on Applications of Ferroelectrics / The 10th European Conference on Applications of Polar Dielectrics/ Symposium on Piezoresponse Force Microscopy, Aveiro, PL, July 8–11, 2012; (iii) The 19th IEEE International Symposium on Applications of Ferroelectrics” / The 10th European Conference on Applications of Polar Dielectrics, Edinburgh, UK, Aug. 9–12, 2010; (iv) The 7th Asian Meeting on Ferroelectrics / The 7th Asian Meeting on Electroceramics, Jeju, Krea, June 28 – July 2, 2010; and (v) The “2008 U.S. Navy Meeting on Acoustic Transducer Materials and Devices”, Penn State University, PA.
- Referee of manuscripts for Nature Commun., Sci. Reports, Appl. Phys. Lett.; Phys. Rev. Lett., Phys. Rev. B; IEEE Trans. Ultrasonics, Ferroelectrics & Frequency Control; Chem. Mater.; J. Solid State Chem.; J. Amer. Ceram. Soc.; J. Appl. Phys.; J. Cryst. Growth, etc.
- Referee of research proposals for several funding agencies, including NSERC, NSF, etc.

PEER-REVIEWED RESEARCH PUBLICATIONS, REVIEW ARTICLES, AND BOOKS

[See "Publications"]

(updated Feb, 2021)