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Education:

PhD, Electronic Science and Technology, Xi'an Jiaotong University, China, May 2004

MSc, Physics, Xi'an Jiaotong University, China, Jun. 1988

BSc, Physics, Northwest University, China, Jan. 1982

Employment:

1982.2 - 1994.8 Assistant, Lecturer, Northwest University, China

1994.9 – present Lecturer, Associate Professor, Professor, Xi'an Jiaotong University, China

Research Interest:

Ferro/Piezo Materials and Devices

Awards:

2020 The 2020 TOP 10 Press Release on Scientific and Technological Progress in China

2020 Ross Coffin Purdy Award, USA

2015 National Natural Science Award, China, the Second-class Prize

2014 Natural Science Award of the Ministry of Education, China, the First-class Prize

2012 Natural Science Award of the Ministry of Education, China, the First-class Prize

Selected Publications (out of more than 500 Publications):

1. Chaorui Qiu, Bo Wang, Nan Zhang, Shujun Zhang, Jinfeng Liu, David Walker, Yu Wang, Hao Tian, Thomas R Shroud, **Zhuo Xu**, Long-Qing Chen, Fei Li, *Transparent ferroelectric crystals with ultrahigh piezoelectricity*, **Nature**, 2020, 577(7790):350-354.

2. Fei Li, Matthew Cabral, Bin Xu, Zhenxiang Cheng, Elizabeth Dickey, James Lebeau, Jianli Wang, Jun Luo, Samuel Taylor, Wesley Hackenberger, Laurent Bellaiche, **Zhuo Xu**, Long-Qing Chen, Thomas Shroud, Shujun Zhang, *Giant piezoelectricity of Sm-doped $Pb(Mg_{1/3}Nb_{2/3})O_3$ - $PbTiO_3$ single crystals*, **Science**, 2019, 364(6437):264-268.

3. Xin Liu, Peng Tan, Xue Ma, Danyang Wang, Xinyu Jin, Yao Liu, Bin Xu, Liao Qiao, Chaorui Qiu, Bo Wang, Weigang Zhao, Chaojie Wei, Kexin Song, Haisheng Guo, Xudong Li, Sean Li, Xiaoyong Wei, Long-Qing Chen, **Zhuo Xu**, Fei Li, Hao Tian, Shujun Zhang, *Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches*, **Science**, 2022, 376(6591): 371-377.

4. Fei Li, Dabin Lin, Zibin Chen, Zhenxiang Cheng, Jianli Wang, ChunChun Li, **Zhuo Xu**, Qianwei Huang, Xiaozhou Liao, Long-Qing Chen, Thomas R. Shrout, Shujun Zhang, *Ultra-high piezoelectricity in ferroelectric ceramics by design*, **Nature Materials**, 2018, 17:349-354.

5. Jinglei Li, Zhonghui Shen, Xianghua Chen, Shuai Yang, Wenlong Zhou, Mingwen Wang, Linghang Wang, Qiangwei Kou, Yingchun Liu, Qun Li, **Zhuo Xu**, Yunfei Chang, Shujun Zhang and Fei Li, *Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications*, **Nature Materials**, 2020, 19:999–1005.

6. Fei Li, Shujun Zhang, Tiannan Yang, **Zhuo Xu**, Nan Zhang, Gang Liu, Jianjun Wang, Jianli Wang, Zhenxiang Cheng, Zuo-Guang Ye, Jun Luo, Thomas R. Shrout, Long-Qing Chen, *The origin of ultrahigh piezoelectricity in relaxor-ferroelectric solid solution crystals*, **Nature Communications**, 2016, 7:13807.

7. Shuai Yang, Jinglei Li, Yao Liu, Mingwen Wang, Liao Qiao, Xiangyu Gao, Yunfei Chang, Hongliang Du, **Zhuo Xu**, Shujun Zhang, Fei Li, *Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range*, **Nature Communications**, 2021,12:1414.