



中国科学院上海硅酸盐研究所

Shanghai Institute of Ceramics, Chinese Academy of Sciences

Curriculum Vitae

Personal information

SURNAME: Zeng

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Education background

Sep/2002-July/2005 Doctor degree for the major of Materials Physics and Chemistry in
Shanghai Institute of Ceramics, Chinese Academy of Sciences

Sep/1995-July/1997 Master degree for the major of Materials Science and Engineering in
Department of Material Science and Engineering, Xi'an Jiaotong
University

Sep/1991-July/1995 Bachelor degree for the major of Metal Materials and Heat Treatment in
Department of Materials, Wuhan University of Science & Technology

Professional Experience:

2019 – Present Professor, Shanghai Institute of Ceramics, CAS.

2010 - 2018 Associate Professor, Shanghai Institute of Ceramics, CAS.

2006 - 2009 Assistant Professor, Shanghai Organic Chemical Institute, CAS.

2005-2006 Research Associate, the Hong Kong Polytechnic University

Awards:

2012, The First Prize of the Technology Invention Reward, Shanghai Municipal, China

2015, The First Prize of CAS Science and Technology Promotion and Development, CAS, China



Working Field

Processing, properties, devices and applications of dielectric/ferroelectric/piezoelectric/electro-optic ceramics.

Papers and Patents

1. **Jiangtao Zeng**, Kunyu Zhao, Xue Shi, Xuezheng Ruan, Liaoying Zheng, Guorong Li, Large strain induced by the alignment of defect dipoles in (Bi³⁺,Fe³⁺) co-doped Pb(Zr,Ti)O₃ ceramics, *Scripta Mater.*, 2018, 142: 20–22
2. **Jiangtao Zeng**, Kunyu Zhao, Wei Ruan, Xuezheng Ruan, Liaoying Zheng, and Guorong Li, Contribution to the large and stable electric field induced strain for textured Pb(Mg_{1/3}Nb_{2/3})_{0.675}Ti_{0.325}O₃ ceramics, *Appl. Phys. Lett.*, 2016,109, 052905
3. **Jiangtao Zeng**, Dan Zhang, Honglai Xu, Yinglei Du, Kunyu Zhao, Wei Ruan, Liaoying Zheng Guorong Li, Microstructure and properties evolution for textured PbMg_{1/3}Nb_{2/3}O₃-PbTiO₃ ceramics, *Ceram Inter* , 2016, 42: 16148–16152
4. **Jiangtao Zeng**, Guorong Li, Wei Ruan, Liaoying Zheng, Huarong Zeng, Aili Ding, Qingrui Yin, The influence of domain structure on the optical and electrical properties of transparent (Pb,La)(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ ceramics, *Ceram. Inter.*, 2013, 39, S31–S34
5. **Jiangtao Zeng**, Zhihao Wei, Yanlin Huang, Taiju Tsuboi, Liaoying Zheng, Wei Ruan, Shiwei Wang, and Guorong Li, NIR to Visible Up-conversion Luminescence of Er³⁺-Doped PMN-PT Transparent Ceramics, *J. Am. Ceram. Soc.*, 2012, 95 [8], 2573–2578
6. **Jiangtao Zeng**, Liaoying Zheng, Guorong Li, Zhenzhu Cao, Kunyu Zhao, Qingrui Yin, Ekaterina D. Politova, Phase transition and electrical properties of (1-x)K_{0.02}Na_{0.98}NbO₃-xBaTiO₃ ceramics, *J. Alloys Compd*, 2011, 509, 5858-5862
7. **Jiangtao Zeng**, Yanghong Zhang, Guorong Li, Liaoying Zheng, Qingrui Yin, Enhanced Piezoelectric Properties of High-TC (K_{0.5+x}Na_{0.5-x})NbO₃-LiNbO₃ Ceramics, *Ferroelectrics*, 2010, 403, 127–133,
8. **Jiangtao Zeng**, Kunyu Zhao, Huarong Zeng, Liaoying Zheng, Gurong Li, Qingrui Yin, “Domain structure of [(Na_{0.7}K_{0.2}Li_{0.1})_{0.5}Bi_{0.5}]TiO₃ ceramics studied by piezoresponse force microscopy”, *Mater. Lett.*, 2009, 63, 1468–1470
9. **Jiangtao Zeng**, Yanghong Zhang, Liaoying Zheng, Gurong Li, and Qingrui Yin, “Enhanced Ferroelectric Properties of Potassium Sodium Niobate Ceramics Modified by Small Amount of K₃Li₂Nb₅O₁₅”, *J. Am. Ceram. Soc.*, 2009, 92 [3], 752–754
10. **Jiangtao Zeng**, Yongxiang Li, Qunbao Yang, Qingrui Yin, “Ferroelectric and Piezoelectric Properties of Tungsten Doped CaBi₄Ti₄O₁₅ Ceramics”, *J. Electroceram.*, 2008, 21 [1-4], 305-308
11. **J.T. Zeng**, K.Y. Zhao, H.R. Zeng, H.Z. Song, L.Y. Zheng, G.R. Li, Q.R. Yin, “Subsurface defect of amorphous carbon film imaged by near field acoustic microscopy”, *Appl. Phys. A*, 2008, 91, 261–265
12. **J. T. Zeng**, K. W. Kwok , H. L. W. Chan, “K_xNa_{1-x} NbO₃ powder synthesized by molten-salt process”, *Mater. Lett.*, 2007, 61, 409–411



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13. **J.T. Zeng**, K. W. Kwok , H. L. W. Chan, “Ferroelectric and Piezoelectric properties of $\text{Na}_{1-x}\text{Ba}_x\text{Nb}_{1-x}\text{Ti}_x\text{O}_3$ ceramics” *J. Am. Ceram. Soc.*, 2006, 89 [9], 2828–2832
14. **J. T. Zeng**, K. W. Kwok, W. K. Tam, H. Y. Tian, X. P. Jiang, and H. L. W. Chan, “Plate-Like $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ Template Synthesized by a Topochemical Method”, *J. Am. Ceram. Soc.*, 2006, 89 [12], 3850–3853
15. **Jiangtao Zeng**, Yongxiang Li, Dongwang, Qingrui Yin, “Electrical Properties of Neodymium doped $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ Ceramics”, *Solid. Stat. Comm.*, 2005, 133 [9], 553-557
16. **Jiangtao Zeng**, Yongxiang Li, Qunbao Yang, Qingrui Yin, “Ferroelectric and piezoelectric properties of vanadium-doped $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ ceramics”, *Mat. Sci. Eng. B*, 2005, 117[3], 241-245
17. **Jiangtao Zeng**, Yongxiang Li, Qunbao Yang, Xuezheng Jing, Qingrui Yin, “Grain Oriented $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ Piezoceramics Prepared by the Screen-printing Multilayer Grain Growth Technique”, *J. Euro. Ceram. Soc.*, 2005, 25[12], 2727-2730