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基本信息 The basic information

姓名: 高峰

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工作经历 Work Experience

材料科学与工程

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高峰, 西北工业大学材料学院教授、博士生导师, 美国

Pennsylvania State University访问学者, 中国材料研究学会高级会员, 西安市第七届青年联合会委员, 西北工业大学基础研究学会创始会员, 西北工业大学青年教师工作委员会副主任, 西北工业大学材料学院教授委员会青年工作委员会副主任, 《J. Am. Ceram. Soc.》、《J. Euro. Ceram. Soc.》、《J. Mater. Sci.》、《压电与声光》、《西北大学学报自然科学版》、《中南大学学报》、《福州大学学报》等20余种国内外学术刊物的审稿人。

教育经历 Education Experience

- ★ 2003/3 - 2005/04: 西北工业大学航空宇航科学与技术博士后流动站, 博士后
- ★ 1999/9 - 2002/12: 西北工业大学材料科学与工程系, 博士研究生, 导师: 田长生教授
- ★ 1996/9 - 1999/04: 西北工业大学材料科学与工程系, 硕士研究生, 导师: 田长生教授
- ★ 1992/9 - 1996/07: 西北工业大学材料科学与工程系, 本科

教育教学 Education And Teaching

主讲本科生专业选修课程《功能材料》、硕士研究生全英文专业课程《Introduction to Functional Ceramics》和《Microstructure Analysis of Advanced Materials》, 荣获“材料学院青年教师讲课比赛一等奖”。已培养了毕业博士2人、毕业硕士18人; 培养的学生中, 有4名本科生获得“西北工业大学本科毕业设计优秀论文”, 5名硕士生获得“西北工业大学研究生创新种子基金”资助, 3名硕士生获得“西北工业大学优秀硕士学位论文”。

荣誉获奖 Awards Information

荣获“2008年陕西省科学技术二等奖”、“陕西省优秀博士论文”、“2004年西安市科技进步一等奖”、“2015年陕西省教育厅高等学校科学技术二等奖”、“陕西省第九届自然科学优秀学术论文三等奖”、“西北工业大学优秀青年教师”、“西北工业大学三育人先进个人”等。

科学研究 Scientific Research

主要从事电子功能陶瓷材料及元器件的基础与应用研究, 先后主持国家自然科学基金、中国博士后科学基金、航空科学基金、陕西省自然科学基金、陕西省工业科技攻关项目、西安应用材料研究基金、西安市工业科技攻关项目、西北工业大学基础研究基金和西北工业大学英才计划基金等科研项目, 已在《Journal European Ceramic Society》、《Ceramics International》、《Journal of Electroceramics》、《Journal of Alloy and Compound》、《J. Mater. Sci. Materials In Electronics》、《Journal of Crystal Growth》、《Journal of Materials Science》、《Journal of Materials Science Letters》、《无机材料学报》、《压电与声光》、《功能材料》等国内外学术期刊上发表论文100余篇, 被SCI收录80余篇、EI收录90余篇, 他引500余次, H因子14, 有两篇研究论文图谱被遴选为国外学术刊物《Journal of Materials Science Letter》和《Journal of Materials Science》的封面, 并申请专利15项, 已获授权12项。

学术成果 Academic Achievements

1. Feng Gao, Shaobo Qu, Zupei Yang, Changsheng Tian, “Cofiring properties and camber development of ferroelectric/ferrite multilayer composites”, Journal of Materials Science, 38 (7), (2003) 1521-1527; (SCI收录; EI收录) (本论文中图6被遴选为该期刊物封面)

2. **Feng Gao**, Shaobo Qu, Zupei Yang, Changsheng Tian, “Interface and ionic interdiffusion in cofired ferroelectric / ferrite multilayer composites”, Journal of Materials Science Letters, 21(1), (2002)15-18; **(SCI收录; EI收录)** (本论文中图1被遴选为该期刊物封面)
3. **Feng Gao**, Shengjie Yang, Jinjing Li, Yong Zhang, Huajun Sun, Fabrication, dielectric, and thermoelectric properties of textured SrTiO₃ ceramics prepared by RTGG method, Ceramics International, 41(1), (2015) 1274-135. **(SCI收录; EI收录)**
4. **Feng Gao**, Liangliang Liu, Bei Xu, GuoXin Hu, Xiao Cao, Rongzi Hong, Changsheng Tian, “Texture development and dielectric relaxor behavior of 0.80Na_{0.5}Bi_{0.5}TiO₃-0.20K_{0.5}Bi_{0.5}TiO₃ ceramics templated by plate-like NaNbO₃ particles”, Journal of the European Ceramic Society, 31 (2011) 2987–2996 **(SCI收录; EI收录)**
5. **Feng Gao**, Liangliang Liu, Bei Xu, Xiao Cao, Zhenqi Deng, Changsheng Tian, “Phase transition and piezoelectric properties of K_{0.48}Na_{0.52}NbO₃–LiTa_{0.5}Nb_{0.5}O₃–NaNbO₃ lead-free ceramics”, Journal of Alloys and Compounds, 509 (2011) 6049–6055**(SCI收录; EI收录)**
6. **Feng Gao**, Rongzi Hong, Jiaji Liu, Yonghong Yao, Changsheng Tian, “Grain Growth Kinetics of Textured 0.92Na_{0.5}Bi_{0.5}TiO₃—0.08BaTiO₃ Ceramics by Tape Casting with Bi_{2.5}Na_{3.5}Nb₅O₁₈ Templates”, Journal of Electroceramics, 24(3), (2010)145-152**(SCI收录; EI收录)**
7. **Feng Gao**, Rongzi Hong, Jiaji Liu, Zhen Li, Lihong Cheng, Changsheng Tian. “Phase Structure and Piezoelectric Properties of High Curie temperature BiYbO₃-PbTiO₃-BaTiO₃ ceramics”, Journal of Alloys and Compounds, 475 (5) (2009)619-623**(SCI收录; EI收录)**
8. **Feng Gao**, Rongzi Hong, Jiaji Liu, Zhen Li, Lihong Cheng, Changsheng Tian. “Phase Formation and Characterization of High Curie temperature xBiYbO₃-(1-x)PbTiO₃ Piezoelectric ceramics”, Journal of the European Ceramic Society, 29(9), (2009)1687-1693 **(SCI收录; EI收录)**
9. **Feng Gao**, Lihong Cheng, Rongzi Hong, Jiaji Liu, Chunjuan Wang, Changsheng Tian, “Crystal Structure and Piezoelectric Properties of xPb(Mn_{1/3}Nb_{2/3})O₃- (0.2-x)Pb (Zn_{1/3}Nb_{2/3})O₃-0.8Pb(Zr_{0.52}Ti_{0.48})O₃ Ceramics”, Ceramics International, 35(5), (2009)1719-1723**(SCI收录; EI收录)**
10. **Feng Gao**, Rongzi Hong, Jiaji Liu, Zhen Li, Changsheng Tian, “Effects of ZnO/Li₂O codoping on microstructure and piezoelectric properties of low-temperature sintered PMN-PNN-PZT ceramics”, Ceramics International, 35(5), (2009)1863-1869 **(SCI收录; EI收录)**
11. **Feng Gao**, Jiaji Liu, Rongzi Hong, Zhen Li, Changsheng Tian, “Microstructure and Dielectric Properties of Low Temperature Sintered ZnNb₂O₆ Microwave Ceramics”, Ceramics International, 35(7), (2009)2687-2692**(SCI收录; EI收录)**
12. **Feng Gao**, Zhenqi Deng, Le Yang, Lihong Cheng, Changsheng Tian, “Phase Transitional Behavior and Piezoelectric Properties of BiYbO₃-Pb(Ti_{0.5}Zr_{0.5})O₃- LiNbO₃ Ceramics”, Ceramics International, 35(7), (2009)2885-2890**(SCI收录; EI收录)**
13. **Feng Gao**, Xiangchun Liu, Changsong Zhang, Lihong Cheng, Changsheng Tian, “Fabrication and Electrical Properties of Textured (Na,K)_{0.5}Bi_{0.5}TiO₃ Ceramics by Reactive-templated Grain Growth”, Ceramics International, 34(2), (2008)403-408 **(SCI收录; EI收录)**
14. **Feng Gao**, Rongzi Hong, Jiaji Liu, Yonghong Yao, Changsheng Tian, “Effect of Different Templates on Microstructure of Textured Na_{0.5}Bi_{0.5}TiO₃-BaTiO₃ Ceramics with RTGG Method”, Journal of the European Ceramic Society, 28 (10), (2008) 2063–2070 **(SCI收录; EI收录)**

15. **Feng Gao**, Lihong Cheng, Rongzi Hong, Jiayi Liu, Yonghong Yao, Changsheng Tian, “Fabrication and Dielectric Properties of Textured $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-BaTiO}_3$ Ceramics by RTGG Method”, *Journal of Materials Science: Materials in Electronics*, 19 (12) (2008)1228-1232(**SCI收录; EI收录**)
16. **Feng Gao**, Chunjuan Wang, Xiangchun Liu, Changsheng Tian, “Effect of Tungsten on the Structure and Piezoelectric Properties of PZN-PZT Ceramics”, *Ceramics International*, 33(6) (2007) 1019-1023(**SCI收录; EI收录**)
17. **Feng Gao**, Changsong Zhang, Xiangchun Liu, Lihong Cheng, Changsheng Tian, “Microstructure and Piezoelectric Properties of Textured $(\text{Na}_{0.84}\text{K}_{0.16})_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ Lead-free Ceramics”, *Journal of the European Ceramic Society*, 27 (12) (2007)3453-3458 (**SCI收录; EI收录**)
18. Guoxin Hu, **Feng Gao**, Jie Kong, Liangliang Liu, Shengjie Yang, Zhengtang Liu, Yong Zhang, and Huajun Sun, Preparation and tunable dielectric properties of poly (vinylidene fluoride)/ $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ composites, *Journal of Alloys and Compounds*, 619 (15), (2015) 686–692. (**SCI收录; EI收录**)
19. Qingqing Zhang, **Feng Gao**, Guoxin Hu, Chaochao Zhang, Min Wang, Mengjie Qin, Li Wang, Characterization and dielectric properties of modified $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ / poly (vinylidene fluoride) composites with high dielectric tunability, *Composite Science and Technology*, 118, (2015) 94-100.(**SCI收录; EI收录**)
20. Chaochao Zhang, **Feng Gao**, Xiaobin Yan, Min Wang, Qingqing Zhang, Mengjie Qin, Li Wang, Effect of excess Sr^{2+} on the microstructure and electrical properties of $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics, *Ceramics International*, 42, (2016)242–250.(**SCI收录; EI收录**)
21. Xiaoxia Tian, **Feng Gao**, Shaobo Qu, Hua Ma, Binke Wang, Effects of molten salt content and reaction temperature on molten salt preparation of $\text{CaNaBi}_2\text{Nb}_3\text{O}_{12}$ powder, *Journal of Materials Science: Materials in Electronics*, 26(8), (2015) 6189-6193 (**SCI收录; EI收录**)
22. Liangliang Liu, **Feng Gao**, A duplex structure in dense $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ferroelectric ceramics, *Ferroelectrics*, 474(1), (2015) 99-104 (**SCI收录; EI收录**)
23. Zhiqiang Li, **Feng Gao**, Guoxin Hu, Dashuai Zhang, Yong Zhang, Huajun Sun, Effect of sintering parameters on the microstructure and microwave dielectric properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-ZnNb}_2\text{O}_6$ composite ceramics, *Journal of Materials Science: Materials in Electronics*, 25(11), (2014) 5020–5026. (**SCI收录; EI收录**)
24. Liangliang Liu, **Feng Gao**, Yong Zhang, Huajun Sun, Dense $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics with uniform grain size prepared by molten salt synthesis, *Journal of Alloys and Compounds*, 616 (2014) 293–299. (**SCI收录; EI收录**)
25. Guoxin Hu, Bei Xu, Xiaobin Yan, Jinjing Li, **Feng Gao**, Zhengtang Liu, Yong Zhang, Huajun Sun, Fabrication and electrical properties of textured $\text{Ba}(\text{Ti}_{0.2}\text{Zr}_{0.8})\text{O}_3\text{-}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ ceramics templated by plate-like BaTiO_3 particles, *Journal of Materials Science: Materials in Electronics*, 25(4), (2014) 1817–1827. (**SCI收录; EI收录**)
26. Xiaobin Yan, **Feng Gao**, Zhengtang Liu, Synthesis of high aspect ratio platelike $\text{Ba}_{1-x}\text{Ca}_x\text{TiO}_3$ particles by Topochemical Microcrystal Conversion method, *Ceramics International*, 40(3), (2014) 4927-4932. (**SCI收录; EI收录**)
27. Xiaobin Yan, **Feng Gao**, Zhengtang Liu, Grain growth, densification and electrical properties of lead-free piezoelectric ceramics from nanocrystalline $(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Ti}_{0.90}\text{Zr}_{0.10})\text{O}_3$ powder by sol–gel technique, *Journal of Materials Science: Materials in Electronics*, 25(5), (2014) 2220-2226. (**SCI收录; EI收录**)

28. Xiaobin Yan, **Feng Gao**, Zhengtang Liu, Microstructure and enhanced electrical properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.44}\text{Li}_{0.06})\text{NbO}_3-x(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Zr}_{0.10}\text{Ti}_{0.90})\text{O}_3$ lead-free ceramics, *Journal of Materials Science: Materials in Electronics*, 25(12), (2014) 5576-5580. (SCI收录; EI收录)
29. Liangliang Liu, **Feng Gao**, Guoxin Hu, Jiangnan Liu, Fabrication of $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ particles with high aspect ratio by two-step molten salt synthesis, *Advanced Powder Technology*, 25(1), (2014) 219-225. (SCI收录; EI收录)
30. Liangliang Liu, **Feng Gao**, Guoxin Hu, Jiangnan Liu, Effect of excess Nb_2O_5 on the growth behavior of $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ particles by molten salt synthesis. *Powder Technology*, 235 (2013) 806–813. (SCI收录; EI收录)
31. Liangliang Liu, **Feng Gao**, Guoxin Hu, Jiangnan Liu, Jinjin Li, Microstructure and electrical properties of potassium strontium niobate ($\text{KSr}_2\text{Nb}_5\text{O}_{15}$) ceramics, *Journal of Alloys and Compounds*, 580 (2013) 93–100. (SCI收录; EI收录)
32. Liangliang Liu, **Feng Gao**, Guoxin Hu, Jiangnan Liu, Preparation of single crystalline $\text{NaSr}_2\text{Nb}_5\text{O}_{15}$ particles with acicular morphology, *Powder Technology* 246 (2013) 395–397.(SCI收录; EI收录)
33. Liangliang Liu, **Feng Gao**, Jinjin Li, Jiangnan Liu, Guoxin Hu, Huajun Sun, Molten salt synthesis of acicular sodium strontium niobate particles, *Materials Science and Engineering B*, 178(20), (2013) 1359-1364. (SCI收录; EI收录)
34. Guoxin Hu, **Feng Gao**, Liangliang Liu, Zhenqi Deng, Zhengtang Liu, Microstructure and dielectric behavior of Bi_2O_3 -doped $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics, *IEEE Ultrasonics, Ferroelectrics, and Frequency Control*, 60(7), (2013) 1287–1294. (SCI收录; EI收录)
35. Xiao Cao, **Feng Gao**, Guoxin Hu, Zhiqiang Li, Changsheng Tian, The phase evolution and dielectric properties of low temperature sintered $\text{ZnNb}_2\text{O}_6\text{-Zn}_3\text{Nb}_2\text{O}_8\text{-TiTe}_3\text{O}_8$ microwave ceramics, *Journal of Materials Science: Materials in Electronics*, 24 (2013) 3021–3028. (SCI收录; EI收录)
36. Xiaobin Yan, **Feng Gao**, Zhengtang Liu, Synthesis of micron-scale platelet $\text{Ba}_{1-x}\text{Ca}_x\text{TiO}_3$ microcrystals by Topochemical Microcrystal Conversion method, *Materials Letters*, 109(2013)313–315. (SCI收录; EI收录)
37. Guoxin Hu, **Feng Gao**, Liangliang Liu, Bei Xu, Zhengtang Liu, Microstructure and dielectric properties of high tunable $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3/\text{MgO}/\text{Al}_2\text{O}_3/\text{ZnO}$ composite, *Journal of Alloys and Compounds*, 518, (2012) 44– 50. (SCI收录; EI收录)
38. Liangliang Liu, **Feng Gao**, Guoxin Hu, Jiangnan Liu, “Phase field simulation for the evolution of textured ceramics microstructure”, *Ceramics International*, 38, (2012) 5425–5432. (SCI收录; EI收录)
39. Bei Xu, **Feng Gao**, Liangliang Liu, Guoxin Hu, Microstructure and dielectric relaxor behavior of $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3\text{-}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3\text{-BaBi}_4\text{Ti}_4\text{O}_{15}$ ceramics by tape casting, *Journal of Materials Science: Materials in Electronics*, 23, (2012) 1809-1816. (SCI收录; EI收录)
40. Guoxin Hu, **Gao Feng**, Liangliang Liu, Xiao Cao, Zhengtang Liu, “Microstructure and dielectric properties of $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3\text{-MgAl}_2\text{O}_4$ composite ceramics”, *Ceramics International*, 37 (2011) 1321–1326 (SCI收录; EI收录)

41. Wang Tong, **Gao Feng**, Hu Guoxin, Tian Changsheng, “Synthesis $Ba_{0.6}Sr_{0.4}TiO_3 - ZnNb_2O_6$ Composite Ceramics using Chemical Coating Method”, Journal of Alloys and Compounds, 504(2), (2010) 362-366(**SCI收录; EI收录**)
42. Hong Rongzi, **Gao Feng**, Liu Jiayi, Yao Yonghong, Tian Changsheng, “Fabrication of $Bi_{0.5}Na_{0.5}TiO_3-BaTiO_3$ textured ceramics by tape casting”, Journal of Materials Science, 43, (2008)6126-6131(**SCI收录; EI收录**)
43. Yanli Lu, Dewei Jia, **Feng Gao**, Zheng Chen, Tingting Hu, First-principles study on the elastic properties of Sr-Ti-O ceramics, Solid State Communications,182, (2014) 43-46. (**SCI收录; EI收录**)
44. Yanli Lu, Dewei Jia, **Feng Gao**, Tingting Hu, and Zheng Chen, First-principle calculations of the thermal properties of $SrTiO_3$ and $SrO(SrTiO_3)_n$ ($n=1,2$), Solid State Communication, 201(2015) 25-30. (**SCI收录; EI收录**)

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