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主要研究方向

- (1) 多铁性 $\text{CoFe}_2\text{O}_4/\text{PbMg}_{1/3}\text{N}_{2/3}\text{-PbTiO}_3$ 复合薄膜的取向生长与磁电耦合效应(哈工大科研创新基金 HIT. NSRIF. 2009031)
- (2) $\text{SrBi}_2\text{Ta}_2\text{O}_9$, $\text{Bi}_{4-x}\text{La}_x\text{Ti}_3\text{O}_{12}$ 和 $\text{Pb}(\text{Zr,Ti})\text{O}_3$ 纳米线(管)的溶胶凝胶合成与表征 (2006.3 至今黑龙江省青年基金 NoQC05C06,国家自然科学基金 No50872024)
- (3) $\text{SrBi}_2\text{Ta}_2\text{O}_9$ 和 $\text{Bi}_{4-x}\text{La}_x\text{Ti}_3\text{O}_{12}$ 铁电薄膜及陶瓷的微观组织结构与性能 (2002.3 至今, 国家自然科学基金 No50502013 and No 50172012)
- (4) 稀土掺杂 BaTiO_3 陶瓷的 PTC 效应
- (5) 溶胶-凝胶工艺制备 Al_2O_3 包覆金属粉体的涂层制备工艺研究

社会兼职

主要学术成果

1. **W. Wang**, Y. Zhou, S. Chen, F. Ye, D. C. Jia. Preparation of strontium bismuth tantalum (SBT) fine powder by Sol-Gel process Using bismuth subnitrate as bismuth source. Journal of materials science and technology. 2001, 17(1): 25-26
2. Y. Zhou, **W. Wang**, D. C. Jia, F. Ye. Synthesis and Characterization of Strontium Bismuth Tantalum (SBT) Fine Powder by a Modified Sol-Gel Process Using Bismuth Subnitrate as Bismuth Source. Materials chemical and physical, 2002, 77: 60-64
3. **W. Wang**, D. C. Jia, Y. Zhou, F. Ye. Synthesis and characterization of nanosized $\text{SrBi}_2\text{Ta}_2\text{O}_9$ powder by a novel sol-gel process. Material Research Bulletin. 2002, 37: 2517-2524
4. **W. Wang**, D. C. Jia, Y. Zhou, F. Ye. Synthesis and properties of SBT powder and film prepared by a sol-gel process. Ceramics International, 2002, 28: 609-615
5. **WANG Wen**, JIA Dechang, ZHOU Yu. Preparation and properties of $\text{SrBi}_{2.2}\text{Ta}_2\text{O}_9$ thin film. Journal of central south university of technology, 2005, 12(4): 376-379
6. **Wen Wang**, Ke Yu, Hua Ke, Haijun Niu, Dechang Jia, Yu Zhou. Fabrication and properties of $\text{SrBi}_2\text{Ta}_{1-x}\text{Nb}_x\text{O}_9$ ferroelectric ceramics. Key Engineering Materials, 2007, 336-338, 143-145
7. Ming Feng, **Wen Wang**, Yu Zhou. Synthesis and characterization of ferroelectric $\text{SrBi}_2\text{Ta}_2\text{O}_9$ nanotubes arrays. Journal of Sol-Gel Science and Technology, 2009, 52: 120-123
8. M.Feng, W. Wang, H.Ke, J.C.Rao, Y.Zhou. Highly(111)-oriented and pyrochlore-free PNM-PT thin films derived from a modified sol-gel process. Journal of alloys and compounds,2010, 495,154-157