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### 【在研科研项目】

1. 教育部新世纪优秀人才计划，多铁性钙钛矿外延超晶格的周期结构、弛豫特征及磁电耦合的研究，2014年-2016年
2. 北京市自然科学基金项目，多重铁性钙钛矿氧化物异质结的铁电场调控自旋隧道效应（2122037），2012年-2014年
3. 国家自然科学基金项目，钙钛矿型铁电铁磁薄膜异质结的界面微观结构与磁电耦合性能的关联性（50802007），2009年-2012年

### 【代表性学术论文】

1. S.Z. Wu, J. Miao, X.G. Xu, W. Yan, R. Reeve, X.H. Zhang, Y. Jiang, Strain-mediated electric-field control of exchange bias in a  $\text{Co}_{90}\text{Fe}_{10}/\text{BiFeO}_3/\text{SrRuO}_3/\text{PMN-PT}$  heterostructure [J]. *Sci. Rep.*, (2015) 5: 8905.
2. Z.D. Xu, L.N. Yu, X. G. Xu, J. Miao, Y. Jiang, Effect of oxide/oxide interface on polarity dependent resistive switching behavior in  $\text{ZnO}/\text{ZrO}_2$  heterostructures [J], *Appl. Phys. Lett.*, (2014) 104 (19), 192903.
3. J. Miao, K.H Chew, J. X. Zhang, Q. Zhan, X. G. Xu, and Y. Jiang, Enhanced fatigue and ferroelectric properties in multiferroic  $(\text{Ba,Sr})\text{TiO}_3/(\text{Bi,L a})\text{FeO}_3$  epitaxial heterostructures [J], *Appl. Phys. Lett.*, (2013) 102 (23): 232902.
4. J. Miao, K. H. Chew, Y. Jiang, Defects control for improved electrical properties in  $(\text{Ba,Sr})(\text{Zr,Ti})\text{O}_3$  films by Co acceptor doping [J], *Appl. Phys. Lett.*, (2011) 99 (23): 232910.
5. J. Miao, X. Zhang, Q. Zhan, Y. Jiang, K. H. Chew, Bi-relaxation behaviors in epitaxial multiferroic double-perovskite  $\text{BiFe}_{0.5}\text{Mn}_{0.5}\text{O}_3/\text{CaRuO}_3$  heterostructures [J], *Appl. Phys. Lett.* (2011) 99 (6): 062905.



**Jun Miao**, the professor of School of materials science and engineering, received his B.E. and M.E. in physics from WuHan University and HuBei University in 1996 and 1999, respectively, and his Ph.D. in condense-mater physics from Institute of physics, Chinese academy of sciences in 2004. My recent research interest is focused on the fundamental phenomenon on novel oxide heterostructure, such as multiferroic, ferroelectric, and its spintronic application.

### 【Publications】

1. S.Z. Wu, J. Miao, X.G. Xu, W. Yan, R. Reeve, X.H. Zhang, Y. Jiang, Strain-mediated electric-field control of exchange bias in a  $\text{Co}_{90}\text{Fe}_{10}/\text{BiFeO}_3/\text{SrRuO}_3/\text{PMN-PT}$  heterostructure [J]. *Sci. Rep.*, (2015) 5: 8905.
2. Z.D. Xu, L.N. Yu, X. G. Xu, J. Miao, Y. Jiang, Effect of oxide/oxide interface on polarity dependent resistive switching behavior in  $\text{ZnO}/\text{ZrO}_2$  heterostructures [J], *Appl. Phys. Lett.*, (2014) 104 (19), 192903.
3. J. Miao, K.H Chew, J. X. Zhang, Q. Zhan, X. G. Xu, and Y. Jiang, Enhanced fatigue and ferroelectric properties in multiferroic  $(\text{Ba,Sr})\text{TiO}_3/(\text{Bi,La})\text{FeO}_3$  epitaxial heterostructures [J], *Appl. Phys. Lett.*, (2013) 102 (23): 232902.
4. J. Miao, K. H. Chew, Y. Jiang, Defects control for improved electrical properties in  $(\text{Ba,Sr})(\text{Zr,Ti})\text{O}_3$  films by Co acceptor doping [J], *Appl. Phys. Lett.*, (2011) 99 (23): 232910.
5. J. Miao, X. Zhang, Q. Zhan, Y. Jiang, K. H. Chew, Bi-relaxation behaviors in epitaxial multiferroic double-perovskite  $\text{BiFe}_{0.5}\text{Mn}_{0.5}\text{O}_3/\text{CaRuO}_3$  heterostructures [J], *Appl. Phys. Lett.* (2011) 99 (6): 062905.