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【在研科研项目】

1. 国家重大研究计划（量子调控），高频微波与磁振子激发及相关畴壁动力学（2015CB921502），经费690万，2015年-2019年；
2. 国家杰出青年基金，金属磁性材料（批准号51325101），经费320万，2014年-2017年；
3. 国家重大研究计划（纳米专项），环栅半导体纳米线超高频器件的基础研究（2012CB932702），经费150万，2011年-2015年。

【代表性学术论文】

1. Z. D. Xu, M. Gao, L. N. Yu, L. Y. Lu, X. G. Xu, and Y. Jiang, “Low-energy resistive random access memory device without compliant current”, *Scientific Reports*, 2015, 5, 10409.
2. S. Z. Wu, Wei Yan, R. Reeve, X. H. Zhang, J. Miao, X. G. Xu, and Y. Jiang, “Strain-mediated electric-field control of exchange bias in a Co₉₀Fe₁₀/BiFeO₃/SrRuO₃/PMN-PT heterostructure”, *Scientific Reports*, 2015, 5, 8905.
3. Lina Yu, Jinming Liu, Kai Wu, Todd Kleinlvin, Yong Jiang, and Jian-Ping Wang, “Evaluation of Hyperthermia of Magnetic Nanoparticles by Dehydrating DNA”, *Scientific Reports*, 2014, 4, 7216.
4. Z. D. Xu, M. Gao, L. N. Yu, L. Y. Lu, X. G. Xu, and Y. Jiang, “Co Nanoparticles Induced Resistive Switching and Magnetism for the Electrochemically Deposited Polypyrrole Composite Films”, *ACS Applied Materials & Interfaces*, 2014, 6, 17823.
5. X. Q. Li, X. G. Xu, D. L. Zhang, J. Miao, Q. Zhan, M. B. A. Jalil, G. H. Yu, Y. Jiang, “Perpendicularizing Magnetic Anisotropy of Full-Heusler Co₂FeAl films by Co-Sputtering with Terbium”, *Appl. Phys. Lett.*, 2010, 96, 142505.



Yong Jiang, the professor of School of Materials Science and Engineering, received his B.E. and M.E. in metal material and heat treatment from Hefei University of Technology, in 1990 and 1998, and his Ph.D. in condensed matter physics from the Institute of Plasma Physics, Chinese Academy of Science in 2000. From 2001 to 2001, he had worked as a research fellow for the Information Storage Materials Laboratory at National University of Singapore. From 2002 to 2004, he was invited to be a JST researcher at Tohoku University. He joined USTB as a full professor since the end of 2004. His research works are concentrated in spin electronics. He has published over 180 refereed journal papers and three book chapters. He has been granted 10 patents, with another 8 patents pending. He is an editorial board member of “Scientific Reports”, “Nanosciences and Nanotechnologies: An International Journal” and “Rare Metals”. He is also a senior member of IEEE.

【Publications】

1. Z. D. Xu, M. Gao, L. N. Yu, L. Y. Lu, X. G. Xu, and Y. Jiang, “Low-energy resistive random access memory device without compliant current”, *Scientific Reports*, 2015, 5, 10409.
2. S. Z. Wu, Wei Yan, R. Reeve, X. H. Zhang, J. Miao, X. G. Xu, and 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”, *Scientific Reports*, 2015, 5, 8905.
3. Lina Yu, Jinming Liu, Kai Wu, Todd Kleinlvin, Yong Jiang, and Jian-Ping Wang, “Evaluation of Hyperthermia of Magnetic Nanoparticles by Dehydrating DNA”, *Scientific Reports*, 2014, 4, 7216.
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5. X. Q. Li, X. G. Xu, D. L. Zhang, J. Miao, Q. Zhan, M. B. A. Jalil, G. H. Yu, Y. Jiang, “Perpendicularizing Magnetic Anisotropy of Full-Heusler Co_2FeAl films by Co-Sputtering with Terbium”, *Appl. Phys. Lett.*, 2010, 96, 142505.