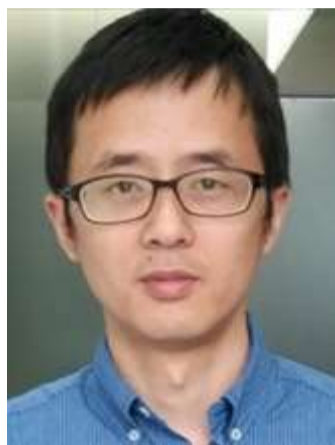




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主要经历:(Experiences)

2000复旦大学-学士

2003复旦大学-硕士

2006德国马普微结构物理研究所-博士

2007-2009德国马普微结构物理研究所-博士后

2009-2015 上海交通大学物理与天文系-特别研究员

2015年5月至今复旦大学教授, 博士生导师

教学与研究领域:

教学: 讲授《大学物理》、《固体物理》、《表面与低维物理》等课程。

研究领域: 表面磁学。利用自旋极化扫描隧道显微镜研究各类磁性体系的表面磁结构以及在原子尺度研究自旋激发和自旋翻转等现象, 理解结构、电子态和磁性之间的关系。研究对象包括薄膜和纳米磁性结构, 磁性分子, 以及磁性半导体和磁性拓扑绝缘体等。

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Research Interests:

Surface magnetism. We use spin-polarized scanning tunneling microscopy to study the surface magnetic structure of various magnetic systems as well as utilize tunneling electrons as a local probe to study spin excitation and spin reversal on the atomic scale to reveal the relation between structure and electronic states and magnetism. Our research interest includes magnetic thin films and nanostructures, magnetic molecule, magnetic semiconductor and topological insulators.

Selected Publications:

1. Identifying Magnetic Anisotropy of the Topological Surface State of $\text{Cr}_{0.05}\text{Sb}_{1.95}\text{Te}_3$ with Spin-Polarized STM, Yang, F, Song, Y. R., Li, H, Zhang, KF, Yao, X, Liu, CH, Qian, D, **Gao, CL**, Jia, JF, Phys. Rev. Lett. 111, 176802 (2013)
2. Spatial and Energy Distribution of Topological Edge States in Single $\text{Bi}(111)$ Bilayer, Yang, F, Miao, L, Wang, ZF, Yao, MY, Zhu, FF, Song, YR, Wang, MX, Xu, JP, Fedorov, AV, Sun, Z, Zhang, GB, Liu, CH, Liu, F, Qian, D, **Gao, CL**, Jia, JF, Phys. Rev. Lett. 109, 016801 (2012)
3. Pd Atomic Chain Formation as a Result of Submonolayer Deposition of 3d Metals on $\text{Pd}(110)$, Wei, D. H., **Gao, C. L.**, Zakeri, K, Przybylski, M (Przybylski, M.), Phys. Rev. Lett, 103, 225504 (2009)
4. Revealing the 120 degrees Antiferromagnetic Neel Structure in Real Space: One Monolayer Mn on $\text{Ag}(111)$, **Gao, C. L.**, Wulfhekel, W and Kirschner, J, Phys. Rev. Lett. 101, 267205(2008)
5. Spin Wave Dispersion on the Nanometer Scale, Gao, C. L., Ernst, A, Fischer, G, Hergert, W, Bruno, P, Wulfhekel, W and Kirschner, J (Kirschner, J., Phys. Rev. Lett., 101, 167201(2008)6) Noncollinear surface spin density by surface reconstruction in the alloy NiMn, **Gao, C. L.**, Ernst, A, Winkelmann, A, Henk, J, Wulfhekel, W, Bruno, P and Kirschner, J, Phys. Rev. Lett., 100, 237203(2008)

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