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凝聚态物理



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个人简历

Education:

1993 - 1998 Univ. of Science & Technology of B.S.
China

1998 - 2004 Princeton University ph.D

Research Experience:

08/2004 - 08/2007 Miller Research Fellow UC Berkeley

09/2007 - 12/2007 Visiting Scholar MIT

12/2007 - present Professor of Physics Tsinghua University

教学

研究领域

- 1、 Strongly correlated electronic materials
- 2、 High temperature superconductivity
- 3、 Transport, magnetic, and thermodynamic measurements
- 4、 Scanning tunneling microscopy and spectroscopy

奖励、荣誉和学术兼职

- 1、 Changjiang professorship, Ministry of Education, 2007
- 2、 William L. McMillan Award in Condensed Matter Physics, 2006
- 3、 Miller Research Fellowship, UC Berkeley, 2004
- 4、 Pappalardo Fellowship award, MIT, 2004 (declined)
- 5、 Charlotte Elizabeth Procter Honorific Fellowship, Princeton University, 2003
- 6、 Outstanding graduate and Outstanding Thesis Award, USTC, 1998

主要论著

- 1、 Yayu Wang et al., "Tuning fulleride electronic structure and molecular ordering via variable layer index" , Nature Materials 7, 194-197 (2008).
- 2、 Yayu Wang et al., "Spatially-resolved electronic and vibronic properties of single diamondoid molecules" , Nature Materials 7, 38-42 (2008).
- 3、 Yayu Wang et al., "Novel orientational ordering and reentrant metallicity in K_xC_{60} monolayers for $3 \leq x \leq 5$ " , Physical Review Letters 99, 086402 (2007).
- 4、 Yayu Wang et al., "Nernst effect in high- T_c superconductors" , Physical Review B 73, 024510 (2006).
- 5、 Yayu Wang et al., "Field-enhanced diamagnetism in intense magnetic field in the pseudogap state of the cuprate $Bi_2Sr_2CaCu_2O_8$ " , Physical Review Letters 95, 247002 (2005).
- 6、 M.L. Foo, Yayu Wang et al., "Charge-ordering, commensurability and metallicity in the phase diagram of layered $NaxCoO_2$ " . Physical Review Letters 92, 247001 (2004).
- 7、 Yayu Wang et al., "Spin entropy as the likely source of enhanced thermopower in $NaxCoO_2$ " , Nature 423, 425-428 (2003).
- 8、 Yayu Wang et al., "Dependence of upper critical field and pairing strength on doping in cuprates" , Science 299, 86-89 (2003).
- 9、 Yayu Wang et al., "High field phase diagram of cuprates derived from the Nernst effect" , Physical Review Letters 88, 257003 (2002).
- 10、 Yayu Wang and N.P. Ong, "Particle-hole symmetry in the antiferromagnetic state of the cuprates" , Proc. Natl. Acad. Sci, USA 98, 11091-11096 (2001).
- 11、 Z.A. Xu, N.P. Ong, Y. Wang, T. Kakeshita and S. Uchida, "Vortex-like excitations and the onset of superconducting phase fluctuation in underdoped $La_{2-x}Sr_xCuO_4$ " , Nature 406, 486-488 (2000).

