



## 个人基本信息



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## 主要研究领域

主要从事新型功能纳米材料的制备、物性研究及器件设计。主持有国家自然科学基金、北京市自然科学基金、国防科工委军工项目、新世纪优秀人才支持计划、科技新星计划、厂协项目等。参加过973、863、杰出青年科学基金和国家自然科学基金重点项目等。在包括Applied Physics Letters、Nanotechnology、JAP、JPCB等重要学术刊物上发表学术论文60余篇, 已经被SCI、EI收录50余篇, SCI引用200余次。在低维纳米材料研究领域申请专利15项。荣获教育部新世纪优秀人才和北京市科技新星称号。现为Nanotechnology、J. Phys. D、Soli. Stat. Com.、Chin. Phys. Lett等学术期刊的特约审稿人。主讲《电子信息材料》, 担任《材料的物理性能》部分内容的讲解。主要研究领域有: (1) 新型功能纳米材料 (2) 气体传感器 (3) 稀磁半导体

## 发表论著作

(1) Y.Q. Chang, P. W. Wang, R. H. Tang, W. J. Qiang, and Y. Long, Synthesis and room temperature ferromagnetism of flower-shaped  $Zn_{1-x}Mn_xO$  nanostructures, J. Cryst. Growth, 2009, In press. (2) J.F. Duan, Y. Long, B. Bao, Y.Q. Chang, R.C. Ye, Experimental and theoretical investigations of the magnetocaloric effect of  $Ni_{2.15}Mn_{0.85-x}Cu_xGa$  ( $x=0.05, 0.07$ ) alloys, J. Appl. Phys. 103 (2008) 063911-1-3. (3) Y.Q. Chang, M.W. Wang, X.H. Chen, S.L. Ni, W.J. Qiang, Y. Long, Field emission and photoluminescence characteristics of ZnS nanowires via vapor phase growth, Solid State Communications, 142 (2007) 295-298. (4) Y.Q. Chang, X.H. Chen, H.Z. Zhang, W.J. Qiang, Y. Long, Field emission from randomly oriented ZnO nanowires, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 25 (2007) 1249-1252. (5) Y.Q. Chang, H.Z. Zhang, Y. Long, R.C. Ye, Fabrication and characterization of well-aligned  $Zn_{1-x}Mn_xO$  nanorods, Chinese Physics Letters, 23 (2006) 716-719. (6) Y.Q. Chang, Y.N. Wu, M.W. Wang, H.Z. Zhang, D.P. Yu, Z. Wang, Y. Long, R.C. Ye, Fabrication and characterization of windmill  $Zn_{1-x}Co_xO$  structures for transparent spintronics, Journal of Crystal Growth, 289 (2006) 183-187. (7) Y.Q. Chang, D.P. Yu, H.Z. Zhang, Z. Wang, Y. Long, W.J. Qiang, Fabrication and characterization of single-crystalline nanostructured  $Zn_{1-x}Mn_xS$ , Nanotechnology, 17 (2006) 1999-2003. (8) Y.Q. Chang, D.P. Yu, Z. Wang, Y. Long, H.Z. Zhang, R.C. Ye, Fabrication and abnormal magnetic properties of MnO nanoparticles via vapor phase growth, Journal of Crystal Growth, 281 (2005) 678-682. (9) Y.Q. Chang, X.Y. Xu, X.H. Luo, Y. Long, R.C. Ye, Magnetic properties of diluted magnetic semiconductor  $Zn_{1-x}Mn_xO$  nanowires, Chinese Physics Letters, 22 (2005) 991-994. (10) Y.Q. Chang, D.P. Yu, Y. Long, J. Xu, X.H. Luo, R.C. Ye, Large-scale fabrication of single-crystalline  $Mn_3O_4$  nanowires via vapor phase growth, Journal of Crystal Growth, 279 (2005) 88-92. (11) Y.Q. Chang, Y. Chen, D.P. Yu, Z.L. Fang, G.H. Li, F.H. Yang, Raman scattering and photoluminescence studies of  $Zn_{1-x}Mn_xO$  nanowires via vapor phase growth, Materials Science Forum, 475-479 (2005) 3525-3530. (12) Y.Q. Chang, X.Y. Xu, X.H. Luo, C.P. Chen, D.P. Yu, Synthesis and characterization of  $Mn_3O_4$  nanoparticles, Journal of Crystal Growth, 264 (2004) 232-236. (13) Y.Q. Chang, D.P. Yu, Z.L. Fang, Y.F. Chen, R.M. Wang, G.H. Li, F.H. Yang, Photoluminescence characterization of nanocrystalline ZnO array, Chinese Physics Letters, 21 (2004) 2301-2304. (14) Y.Q. Chang, D.B. Wang, X.H. Luo, X.Y. Xu, X.H. Chen, L. Li, C.P. Chen, R.M. Wang, J. Xu, D.P. Yu, Synthesis, optical, and magnetic properties of diluted magnetic semiconductor  $Zn_{1-x}Mn_xO$  nanowires via vapor phase growth, Applied Physics Letters, 83 (2003) 4020-4022. (SCI, EI) (15) Y.Q. Chang, X.H. Luo, X.Y. Xu, L. Li, C.P. Chen, R.M. Wang, D.P. Yu,

Synthesis characterization and magnetic property measurements of  $Zn_{1-x}Mn_xO$  nanoparticles via vapor phase growth, Chinese Physics Letters, 20 (2003) 2058-2060. (16) Y.Q. Chang, W.Q. Jie, X.P. Guo, F.Y. Chen, W.J. An, Composition distribution in the  $MnxCd_{1-x}In_2Te_4$  ingot grown by ACRT-B method, Journal of Materials Science and Technology, 19 (2003) 610-612. 著作: 材料的物理性能, 中南大学出版社, 2008

获得主要荣誉

(1) 教育部“新世纪优秀人才” (2) 北京市“科技新星” (3) 教育部提名国家科学技术奖自然科学一等奖 (4) 国防科工委国防科技进步奖三等奖

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