



- 本系概况
- 学科建设
- 师资队伍
 - 教授
 - 副教授
 - 其他教师
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- 校友天地

教师个人空间 Personal Space



姓名: 高立明
 职称: 副教授
 研究方向: 集成电路芯片测试、可靠性和失效分析
 所属学科: 测试计量技术及仪器
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高立明, 工学博士、副教授, 硕士生指导教师

教育背景

2004年10月 德国慕尼黑工业大学 电子工程系 工学博士 (Dr.-Ing.)

工作背景

2004年11月-2009年5月 英飞凌科技公司德国慕尼黑总部 项目负责人 (Project Leader)
 2009年6月 回国, 上海交通大学电信学院仪器系引进人才

研究方向

大规模集成电路芯片和MEMS的测试、可靠性和失效分析

研究工作重点领域

1. 复杂半导体芯片的测试和失效分析。
2. 纳米CMOS器件和纳米电子器件的系统工艺和测试。
3. 大规模集成电路器件可靠性测试和故障诊断。
4. 基于CMOS工艺MEMS的系统测试和可靠性研究。
5. 军用及空天专用微电子器件和微系统的可靠性和失效分析研究。

学术兼职

德国电子电气工程师协会 (VDE) 会员
 国际电子电气工程师协会 (IEEE) 会员

论文和专著

德国出版学术专著一部, 国内外发表论文30余篇, 其中多篇SCI国际期刊论文。

著作

Silver Metal Organic Chemical Vapor Deposition for Microelectronic Metallization, 2005, Shaker Verlag 出版社 (德国) (独立完成) ISBN 3-8322-3895-6

主要论文

1. L. Gao, C. Burmer: PLL soft functional failure analysis in advanced logic product using fault based analogue simulation and soft defect localization. Microelectronics Reliability 48 (2008) 1349-1353. SCI 影响因子1.290
2. L. Gao, C. Burmer and F. Siegelin: ATPG scan logic failure analysis: a case study of logic ICs: fault isolation, defect mechanism identification and yield improvement. Microelectronics Reliability 46 (2006) 1458-1463. ISSN 0026-2714,SCI 影响因子0.815,IDS Number: 087XM
3. L. Gao, P. Haerter, Ch. Linsmeier, A. Wiltner, R. Emling and D. Schmitt-Landsiedel: Silver metal organic chemical vapor deposition for advanced silver metallization. Microelectronic Engineering 82 (2005) 296-300. ISSN: 0167-9317. SCI影响因子: 1.398. IDS Number: 997HM
4. L. Gao, P. Haerter, Ch. Linsmeier, J. Gstoettner, R. Emling and D. Schmitt-Landsiedel: Metalorganic Chemical Vapor Deposition of Silver Thin Films for Future Interconnects by Direct Liquid Injection System. Materials Science

5. L. Gao, J. Gstoettner, R. Emling, M. Balden, Ch. Linsmeier, A. Wiltner, W. Hansch, and D. Schmitt-Landsiedel: Thermal stability of titanium nitride diffusion barrier films for advanced silver interconnects. *Microelectronic Engineering*, 76 (2004) 76-81. ISSN: 0167-9317, SCI影响因子: 1.514. IDS Number: 863LI
6. L. Gao, C. Burmer: A Strategy to Analyze Soft Functional Failures in Advanced Logic Product Using Fault Based Analogue Simulation and Soft Defect Localization. 2008: 19th European Symposium Reliability of Electron Devices, Failure Physics and Analysis; EI
7. L. Gao, C. Burmer and F. Siegelin: ATPG scan logic failure analysis: a case study of logic ICs: fault isolation, defect mechanism identification and yield improvement. 17th European Symposium Reliability of Electron Devices, Failure Physics and Analysis, Wuppertal, Germany, 2.-6.10.2006. EI.: Committee, Conference, 2006 ISSN 0026-2714 EI:
8. L. Gao and C. Burmer: ATPG scan logic failure analysis. Infineon Test Summit, Munich Germany, 06.2006. Ed.: Committee, Conference, 2006.
9. L. Gao, P. Haerter, Ch. Linsmeier, A. Wiltner, R. Emling and D. Schmitt-Landsiedel: Silver metal organic chemical vapor deposition for advanced silver metallization. European Workshop of Materials for advanced Metallization, Dresden, Germany, 6.-9.03.2005. Ed.: Committee, Conference, 2005. ISSN 0272-9172, EI
10. L. Gao, J. Gstoettner, R. Emling, P. Wang, W. Hansch and D. Schmitt-Landsiedel: Silver Patterning by Reactive Ion Beam Etching for Microelectronics Application. *Mat. Res. Soc. Symp. Proc. Vol. 812, F3.19*, April 12-16 San Francisco, CA, USA 2004. ISSN 0272-9712 EI:
11. L. Gao, J. Gstoettner, R. Emling, Ch. Linsmeier, M. Balden, A. Wiltner, W. Hansch and D. Schmitt-Landsiedel: Silver Metallization With Reactively Sputtered TiN Diffusion Barrier Films. *Mat. Res. Soc. Symp. Proc. Vol. 812, F8.3*, April 12-16 San Francisco, CA, USA 2004. ISSN 0167-9317 EI:
12. L. Gao, P. Haerter, Ch. Linsmeier, J. Gstoettner, R. Emling and D. Schmitt-Landsiedel: Metalorganic Chemical Vapor Deposition of Silver Thin Films for Future Interconnects by Direct Liquid Injection System. E-MRS Spring Meeting 2004, Strasbourg, France, 24.-28.05.2004. Ed.: Committee, Conference, 2004. ISSN 1369-8001 EI:
13. L. Gao, J. Gstoettner, R. Emling, M. Balden, Ch. Linsmeier, A. Wiltner, W. Hansch and D. Schmitt-Landsiedel: Thermal stability of titanium nitride diffusion barrier films for advanced silver interconnects. European Workshop of Materials for advanced Metallization, Brüssel, Belgium, 8.-10.03.2004. Ed.: Committee, Conference, 2004. ISSN 0167-9317 EI:

招生:

欢迎仪器类、电类、机械类和跨学科领域的学生报考本人的硕士研究生;
欢迎有电子技术、测试技术相关经验或对此感兴趣的同学加入研究团队。

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