

Publications

- [19] V. Vonk, N. Khorshidi, A. Stierle and H. Dosch, *Atomic Structure and Composition of the Ytria-stabilized Zirconia (111) Surface*, **Surf. Sci.** 612 (2013) 69-76
- [18] *In-situ X-ray Diffraction at Synchrotrons and Free-Electron Lasers* by V. Vonk and H. Graafsma in *In-situ Characterization of Materials*, edited by A. Ziegler (Springer, to appear in 2013)
- [17] A. Bode, V. Vonk, F.J. van den Bruele, D.J. Kok, A.M. Kerkenaar, M.F. Mantilla, S. Jiang, J.A.M. Meijer, W.J. P. van Enckevort and E. Vlieg, *Anticaking Activity of Ferrocyanide on Sodium Chloride Explained by Charge Mismatch*, **Cryst. Growth & Design** 12 (2012) 1919-1924
- [16] V. Vonk, J. Huijben, D. Kukuruznyak, A. Stierle, H. Hilgenkamp, A. Brinkman and S. Harkema, *Polarity-retaining A-site Intermixing and Vacancies at SrTiO₃/LaAlO₃ Interfaces*, **Phys. Rev. B** 85 (2012) 045401
- [15] V. Vonk, *Surface Structure Refinement including Anomalous Crystal Truncation Rods*, **J. Appl. Cryst** 44 (2011) 1217-1221
- [14] R.E. Algra, V. Vonk, D. Wermeille, W.J. Szweryn, M.A. Verheijen, W.J.P. van Enckevort, A.A.C. Bode, W.L. Noorduyn, E. Tancini, A.E.F. de Jong, E.P.A.M. Bakkers and E.Vlieg, *Formation of Wurtzite InP Nanowires explained by Liquid Ordering*, **Nano Lett.** 11 (2011) 44-48
- [13] C. Ellinger, V. Vonk, N. Khorshidi, A. Vlad, A. Stierle and H. Dosch, *In-situ X-ray Study of the Oxidation of a Vicinal NiAl(6,7,1) Surface*, **New J. of Phys.** 11 (2009) 113004
- [12] X.-Q. Gong, N. Khorshidi, A. Stierle, V. Vonk, C. Ellinger, H. Dosch, H. Cheng, A. Selloni, Y.B. He, O. Dulub, U. Diebold, *The 2×1 Reconstruction of the Rutile TiO₂(011) Surface: a Combined Density Functional Theory, X-ray Diffraction, and Scanning Tunneling Microscopy Study*, **Surf. Sci.** 603 (2008) 138-144
- [11] V. Vonk, C. Ellinger, N. Khorshidi, A. Vlad, A. Stierle and H. Dosch, *In-situ X-ray Study of Fe₃Al(110) Subsurface Superlattice Disorder during Oxidation*, **Phys. Rev. B** 78 (2008) 165426
- [10] V. Vonk, C. Ellinger, N. Khorshidi, A. Vlad, A. Stierle and H. Dosch, *Oxygen-induced D0₃ Superlattice Disorder at the Fe₃Al(110) Surface*, **Acta. Crystallogr. A** (2008)
- [9] V. Vonk, K. J. I. Driessen, M. Huijben, G. Rijnders, D.H.A. Blank, H. Rogalla, S. Harkema and H. Graafsma, *Initial Growth and Structure of YBa₂Cu₃O_{7-x} during Pulsed Laser Deposition*, **Phys. Rev. Lett.** 99 (2007) 196106
- [8] V. Vonk, M. Huijben, K.J.I. Driessen, P. Tinnemans, A. Brinkman, S. Harkema and H. Graafsma, *Interface Structure of SrTiO₃/LaAlO₃ at Elevated Temperatures studied in situ by Synchrotron X-rays*, **Phys. Rev. B** 75 (2007) 235417

- [7] V.Vonk *Growth and Structure of Complex Oxide Thin Films* **Ph.D. thesis University of Twente** (2006) ISBN 90-365-2383-4
- [6] V. Vonk, S. Konings, L. Barthe, B. Gorges and H.Graafsma, *Pulsed Laser Deposition Chamber for in situ X-ray Diffraction*, **J. Synchr. Rad.** 12 (2005) 833
- [5] V. Vonk, K. Driessen, M. Huijben, S. Harkema and H. Graafsma, *In situ X-ray Diffraction during Pulsed Laser Deposition*, **ESRF Highlights 2004** (2005)
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- [2] V. Vonk, S.J. van Reeuwijk, J.M. Dekkers, S. Harkema, G. Rijnders and H. Graafsma *Strain-induced Structural Changes in Thin YBa₂Cu₃O_{7-x} Films on SrTiO₃ Substrates* **Thin Solid films** 449 (2004) 133
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Students' Internships

The following students' projects have been supervised over the years at the European Synchrotron Radiation Facility (ESRF), Max Planck Institute for Metals Research (MPI-MF, now MPI for Intelligent Systems) and the Radboud University Nijmegen (RU).

- [16] Daniel Verschueren, *Using Genetic Algorithms to Analyse Surface X-ray Diffraction Data*, **RU** (2012)
- [15] Dirk J. Kok, *Shape Changes in Catalysts*, **Universität Siegen & RU** (2012)
- [14] Onno van Dillen, *Processing Area Detector Data from Surface X-ray Diffraction Experiments*, **RU** (2011)
- [13] Pim van der Asdonk, *Commissioning of a Furnace for in-situ Epitaxial Graphene Growth Studies using Synchrotron Radiation*, **ESRF & RU** (2011)
- [12] Melissa Cremers, *In-situ High-Energy X-ray Reflectivity during Liquid Phase Epitaxy*, **RU** (2011)
- [11] Lisanne J.M. Kempkes, *X-ray structure Determination of 4H-SiC*, **RU** (2011)
- [10] Krista Polman, *Graphene Growth on Silicon Carbide (000-1)*, **RU** (2011)
- [9] Anne Kerkenaar, *Liquid Phase Epitaxial Growth of Si/Si_{1-x}Ge_x Heterostructures*, **RU** (2010)

- [8] Daan de Kort, *Gallium Nitride Growth from Solution*, **RU** (2010)
- [7] Aryan E.F. de Jong, *An Introduction to HEMD at ID15C*, **ESRF, MPI-MF & RU**, (2010)
- [6] Navid Khorshidi, *Structure and Stability of the TiO₂-(011) Surface*, **MPI-MF** (2007)
- [5] Chang-Jong Kim, *X-Ray Studies of Polarization Switching in Ferroelectric Films*, **MPI-MF** (2007)
- [4] Kurt Driessen, *In-situ X-ray Diffraction during Pulsed Laser Deposition*, **ESRF** (2004)
- [3] Marie-Ingrid Richard, *Transition de Phase du Supraconducteur YBa₂Cu₃O_{7-x}*, **ESRF** (2003)
- [2] Stan Konings, *Towards in-situ Pulsed Laser Deposition*, **ESRF** (2003)
- [1] Florentin Millour, *Dépendance en Température de la Structure du Supraconducteur YBa₂Cu₃O_{7-x}*, **ESRF** (2002)