

P.R. WILLMOTT - PUBLICATIONS

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1. Peer-reviewed articles

2010 – 2013

1. C. Cancellieri, M. L. Reinle-Schmitt, M. Kobayashi, V. N. Strocov, T. Schmitt, P.R. Willmott, S. Gariglio, and J.-M. Triscone
Interface Fermi states of LaAlO₃/SrTiO₃ and related heterostructures.
Phys. Rev. Lett., **110** (2013) 137601
2. M. L. Reinle-Schmitt, C. Cancellieri, D. Li, D. Fontaine, M. Medarde, E. Pomjakushina, C. W. Schneider, S. Gariglio, Ph. Ghosez, J.-M. Triscone, and P. R. Willmott
Tunable conductivity threshold at polar oxide interfaces.
Nat. Commun. **3** (2012) 932
3. S. A. Pauli, S. J. Leake, M. Björck, and P. R. Willmott
Atomic imaging and direct phase retrieval using anomalous surface x-ray diffraction.
J. Phys. Condens. Matter **24** (2012) 305002
4. S. Meyer, T. E. Umbach, C. Blumenstein, J. Schäfer, R. Claessen, S. Sauer, S. J. Leake, P. R. Willmott, M. Fiedler, and F. Bechstedt
Structural examination of Au/Ge(001) by surface x-ray diffraction and scanning tunneling microscopy.
Phys. Rev. B **85** (2012) 235439
5. C. Cancellieri, D. Fontaine, S. Gariglio, N. Reyren, A. D. Caviglia, A. Fete, S. J. Leake, S. A. Pauli, P. R. Willmott, M. Stengel, P. Ghosez, and J.-M. Triscone
Electrostriction at the LaAlO₃/SrTiO₃ interface.
Phys. Rev. Lett. **107** (2011) 056102
6. Z. Salman, M. Smadella, W. A. MacFarlane, B. D. Patterson, P. R. Willmott, K. H. Chow, M. D. Hossain, H. Saadaoui, D. Wang, and R. F. Kiefl
Depth dependence of the structural phase transition of SrTiO₃ studied with β -NMR and grazing incidence x-ray diffraction.
Phys. Rev. B **83** (2011) 224112
7. Y. Sassa, M. Radovic, M. Mansson, E. Razzoli, X. Y. Cui, S. Pailhes, S. Guerrero, M. Shi, P. R. Willmott, F. Miletto Granozio, J. Mesot, M. R. Norman, and L. Patthey
Ortho-II band folding in clean YBa₂Cu₃O_{7- δ} films revealed by angle-resolved photoemission.
Phys. Rev. B (Rapid Communications) **83** (2011) 140511
8. S. A. Pauli, S. J. Leake, B. Delley, M. Björck, C. W. Schneider, C. M. Schlepütz, D. Martoccia, S. Paetel, J. Mannhart, and P. R. Willmott
Evolution of the Interfacial Structure of LaAlO₃ on SrTiO₃.
Phys. Rev. Lett. **106** (2011) 036101
9. C. M. Schlepütz, S. O. Mariager, S. A. Pauli, R. Feidenhans'l, and P. R. Willmott
Angle calculations for a (2+3)-type diffractometer: focus on area detectors.
J. Appl. Cryst. **44** (2011) 73
10. C. M. Schlepütz, M. Björck, E. Koller, S. A. Pauli, D. Martoccia, Ø. Fischer, and P. R. Willmott
Structure of ultrathin heteroepitaxial superconducting YBa₂Cu₃O_{7-x} films.
Phys. Rev. B **81** (2010) 174520

11. S. O. Mariager, S. L. Lauridsen, C. B. Sorensen, A. Dohn, P. R. Willmott, J. Nygard, and R. Feidenhans'l
Stages in molecular beam epitaxy growth of GaAs nanowires studied by x-ray diffraction.
Nanotechnology **21** (2010) 115603
12. D. Martoccia, M. Björck, C. M. Schlepütz, T. Brugger, S. A. Pauli, B. D. Patterson, T. Greber, and P. R. Willmott
Graphene on Ru(0001): a corrugated and chiral structure.
New J. Phys. **12** (2010) 043028
13. D. Martoccia, S. A. Pauli, T. Brugger, T. Greber, B. D. Patterson, and P. R. Willmott
h-BN on Rh(111): Persistence of a commensurate 13-on-12 superstructure up to high temperatures.
Surf. Sci. Lett. **604** (2010) L9
14. D. Martoccia, T. Brugger, M. Björck, C. M. Schlepütz, S. A. Pauli, T. Greber, B. D. Patterson, and P. R. Willmott
h-BN/Ru(0001) nanomesh: A 14-on-13 superstructure with 3.5 nm periodicity.
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15. S. O. Mariager, C. M. Schlepütz, M. Aagesen, C. B. Sorensen, E. Johnson, P. R. Willmott, and R. Feidenhans'l
High-resolution three-dimensional reciprocal space mapping of semiconductor nanostructures.
Physica Stat. Sol. A **206** (2009) 1771
16. B. A. Sobott, C. Brönnimann, E. F. Eikenberry, R. Dinapoli, P. Kraft, G. N. Taylor, P. R. Willmott, C. M. Schlepütz, and R. P. Rassool
Synchrotron radiation hardness studies of PILATUS II.
J. Synch. Rad. **16** (2009) 489
17. S. O. Mariager, S. L. Lauridsen, A. Dohn, N. Bovet, C. B. Sorensen, C. M. Schlepütz, P. R. Willmott, and R. Feidenhans'l
High-resolution three-dimensional reciprocal space mapping of InAs nanowires.
J. Appl. Crystallogr. **42** (2009) 369
18. M. Sing, G. Berner, K. Goss, A. Müller, A. Ruff, A. Wetscherek, S. Thiel, J. Mannhart, S. A. Pauli, C. W. Schneider, P. R. Willmott, M. Gorgoi, F. Schafers, and R. Claessen
Profiling the interface electron gas of LaAlO₃/SrTiO₃ heterostructures with hard x-ray photoelectron spectroscopy.
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19. P. Kraft, A. Bergamaschi, C. Brönnimann, R. Dinapoli, E. F. Eikenberry, B. Henrich, I. Johnson, A. Mozzanica, C. M. Schlepütz, P. R. Willmott, and B. Schmitt
Performance of single-photon-counting PILATUS detector modules.
J. Synch. Rad. **16** (2009) 368
20. M. Björck, C. M. Schlepütz, S. A. Pauli, D. Martoccia, R. Herger, and P. R. Willmott
Atomic imaging of thin films with surface x-ray diffraction: Introducing DCAF.
J. Phys.: Condens. Matter **20** (2008) 445006
21. O. Bunk, D. K. Satapathy, F. Pfeiffer, A. Diaz, C. David, K. Nygard, E. Perret, C. Padeste, P. R. Willmott, B. D. Patterson, B. Schmitt, and J. F. van der Veen
Concentration Profiles of Colloidal Fluids in One-Dimensional Confinement.
Chimia **62** (2008) 789
22. D. Martoccia, P. R. Willmott, C. M. Schlepütz, A. Cervellino, S. A. Pauli, M. Björck, B. D. Patterson, T. Brugger, J. Osterwalder, T. Greber, S. Marchini, S. Günther, and J. Winterlin
The unit cell of graphene on Ru(0001): a 25 × 25 supercell with 1250 carbon atoms.
Phys. Rev. Lett. **101** (2008) 126102

23. D. P. Kumah, A. Riposan, C. N. Cionca, N. S. Hussein, R. Clarke, J. Y. Lee, J. M. Millunchick, Y. Yacoby, C. M. Schlepütz, M. Björck, and P. R. Willmott
Resonant coherent Bragg rod analysis of strained epitaxial heterostructures.
Appl. Phys. Lett. **93** (2008) 081910
24. J. Hoppler, J. Stahn, H. Bouyanfif, V. K. Malik, B. D. Patterson, P. R. Willmott, G. Cristiani, H.-U. Habermeier, and C. Bernhard
X-ray study of structural domains in the near-surface region of SrTiO₃-substrates with Y_{0.6}Pr_{0.4}Ba₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ superlattices grown on top.
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25. A. Kohlstedt, S. Kalbfleisch, T. Salditt, M. Reiche, U. Gösele, E. Lima, and P. R. Willmott
Two-dimensional X-ray waveguides: fabrication by wafer-bonding process and characterization.
Appl. Phys. A **91** (2008) 7
26. J. Krempasky, V. N. Strocov, L. Patthey, P. R. Willmott, R. Herger, M. C. Falub, P. Blaha, M. Hoesch, V. Petrov, M. C. Richter, O. Heckmann, and K. Hricovini
Effects of three-dimensional band structure in angle- and spin-resolved photoemission from half-metallic La_{2/3}Sr_{1/3}MnO₃.
Phys. Rev. B **77** (2008) 165120
27. M. Shi, M. C. Falub, P. R. Willmott, J. Krempasky, R. Herger, L. Patthey, K. Hricovini, C. V. Falub, and M. Schneider
The electronic structure of La_{1-x}Sr_xMnO₃ thin films and its T_c dependence as studied using angle-resolved photoemission.
J. Phys. Condens. Matter **20** (2008) 222001
28. R. Herger, P. R. Willmott, C. M. Schlepütz, M. Björck, S. A. Pauli, D. Martoccia, B. D. Patterson, D. Kumah, R. Clarke, Y. Yacoby, and M. Döbeli
Structure determination of monolayer-by-monolayer grown La_{1-x}Sr_xMnO₃ thin films and the onset of magnetoresistance.
Phys. Rev. B **77** (2008) 085401
29. P. R. Willmott, S. A. Pauli, R. Herger, C. M. Schlepütz, D. Martoccia, B. Delley, R. Clarke, D. Kumah, C. Cionca, and Y. Yacoby
Structural basis for the conducting interface between LaAlO₃ and SrTiO₃.
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30. R. Herger, P. R. Willmott, O. Bunk, C. M. Schlepütz, B. D. Patterson, B. Delley, V. L. Shneerson, P. F. Lyman, and D. K. Saldin
Surface structure of SrTiO₃(001).
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Surface of strontium titanate.
Phys. Rev. Lett. **98** (2007) 076102
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X-ray diffraction studies of the growth of vanadium dioxide nanoparticles.
J. Appl. Phys. **102** (2007) 073527
33. S. O. Mariager, C. B. Sorensen, M. Aagesen, J. Nygard, R. Feidenhans'l, and P. R. Willmott
Facet structure of GaAs nanowires grown by molecular beam epitaxy.
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34. T. Lippert, M. J. Montenegro, M. Döbeli, A. Weidenkaff, S. Müller, P. R. Willmott, and A. Wokaun
Perovskite thin films deposited by pulsed laser ablation as model systems for electrochemical applications.
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35. O. Bunk, A. Diaz, F. Pfeiffer, C. David, C. Padeste, H. Keymeulen, P. R. Willmott, B. D. Patterson, B. Schmitt, and D. K. Satapathy
Confinement-induced liquid ordering investigated by x-ray phase retrieval.
Phys. Rev. E **75** (2007) 021501
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37. P. R. Willmott, R. Herger, C. M. Schlepütz, D. Martoccia, and B. D. Patterson
Energetic surface smoothing of complex metal-oxide thin films.
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38. M. J. Montenegro, K. Conder, M. Döbeli, T. Lippert, P. R. Willmott, and A. Wokaun
Pulsed reactive crossed beam laser ablation of $\text{La}_{0.6}\text{Ca}_{0.4}\text{CoO}_3$ using O-18 - Where does the oxygen come from?
Appl. Surf. Sci. **252** (2006) 4642
39. C. M. Schlepütz, R. Herger, P. R. Willmott, B. D. Patterson, O. Bunk, C. Brönnimann, B. Henrich, G. Hülsen, and E. F. Eikenberry
Improved data acquisition in grazing-incidence X-ray scattering experiments using a pixel detector.
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41. S. Czekaj, F. Nolting, L. J. Heyderman, P. R. Willmott, and G. van der Laan
Sign dependence of the X-ray magnetic linear dichroism on the antiferromagnetic spin axis in LaFeO_3 thin films.
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42. P. R. Willmott, R. Herger, B. D. Patterson, and R. Windiks
Experimental and theoretical study of the strong dependence of the microstructural properties of $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ thin films as a function of their composition.
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43. P. R. Willmott, C. M. Schlepütz, R. Herger, B. D. Patterson, K. Hassdenteufel, and W. Steurer
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45. M. J. Montenegro, M. Döbeli, T. Lippert, S. Müller, A. Weidenkaff, P. R. Willmott, and A. Wokaun
Can thin perovskite film materials be applied as model systems for battery applications?
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