

Marc Walker

Date of Birth: 12th May 1980

Nationality: British

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QUALIFICATIONS

- 2006 Ph.D. in Physics, University of Warwick
Thesis title: *Low energy ion scattering studies of metal, metal oxide and alloy surfaces.*
Ph.D. supervisor: Prof. C.F. McConville
- 2002 M.Phys. (Hons), Class Iii, Physics, University of Warwick
Final year project: *Characterisation of Pseudomorphic Si/Si_{0.5}Ge_{0.5} Heterostructures.*

EMPLOYMENT

- 2009- Research Fellow, University of Warwick, UK.
- 2006-2008 Postdoctoral Researcher, University of Warwick, UK.
- 2002-2005 Laboratory Demonstrator, Department of Physics, University of Warwick, UK.
- 1998-2002 Demand Chain Operative (Hewlett Packard), Unipart DCM, Coventry, UK.

SELECTED REFEREED PUBLICATIONS (from over 20)

- I. Hancox, L. Rochford, D. Clare, **M. Walker**, J.J. Mudd, et al.
"Optimisation of a High Work Function Solution Processed Vanadium Oxide Hole Extracting Layer for Small Molecule and Polymer Organic Photovoltaic Cells"
Submitted to J. Phys. Chem (2012).
- N.R. Wilson, A. Marsden, M. Saghir, **M. Walker** et al.
"Weak mismatch epitaxy and structural feedback in grapheme growth on copper foil"
Submitted for publication in ACS Nano (2012).
- J.D. Aldous, C.W. Burrows, I. Maskery, M. Brewer, D. Pickup, **M. Walker** et al.
"Growth and characterisation of NiSb(0001)/GaAs(111)B epitaxial films.
Accepted for publication in J. Cryst. Growth (2012).
- L. Fishwick, **M. Walker**, M.K. Bradley, D.P. Woodruff and C.F. McConville,
Phys. Rev. B **85** (2012) 045322.
- **M. Walker**, M.G. Brown, M. Draxler, M.G. Dowsett, C.F. McConville et al.
Surf. Sci. **605** (2011) 1934.
- **M. Walker**, M.G. Brown, M. Draxler, M.G. Dowsett, C.F. McConville et al.
Phys. Rev. B **83** (2011) 085424.
- **M. Walker**, M.G. Brown, M. Draxler, L. Fishwick, M.G. Dowsett and C.F. McConville
Surf. Sci. **605** (2011) 107.
- T.C.Q. Noakes, P. Bailey, C.F. McConville, M. Draxler, **M. Walker** et al.
Phys. Rev. B **82** (2010) 195418.
- D.C. Sheppard, **M. Walker**, C.F. McConville, D.P. Woodruff, T.C.Q. Noakes and P. Bailey
Surf. Sci. **604** (2010) 1727.
- T.D. Veal, P.D.C. King, **M. Walker**, C.F. McConville, Hai Lu and W.J. Schaff
Physica B **401-402**, (2007) 351.
- **M. Walker**, C.R. Parkinson, M. Draxler, M.G. Brown and C.F. McConville
Surf. Sci. **600** (2006) 3327.

- L.F.J. Piper, T.D. Veal, **M. Walker**, I. Mahboob, C.F. McConville, H. Lu and W.J. Schaff
J. Vac. Sci. Technol. A **23** (2005) 617-620.
- **M. Walker**, C.R. Parkinson, M. Draxler and C.F. McConville
Surf. Sci. **584** (2005) 153-160.
- C.R. Parkinson, **M. Walker** and C.F. McConville
Surf. Sci. **545** (2003) 19-33.

CONFERENCE PRESENTATIONS (from over 20, presenting author underlined)

- E. Davis, J.J. Mudd, **M. Walker** et al.,
"Sulfur passivation of InN surfaces",
CMD-24 / ECOSS-29, Edinburgh, 2012 (Oral presentation).
- M. Walker, J.J. Mudd, L. Fishwick and C.F. McConville,
"The CdO(001) surface: photoemission, ion scattering and low energy electron diffraction studies",
CMD-24 / ECOSS-29, Edinburgh, 2012 (Poster presentation).
- **M. Walker**, L. Fishwick, J.J. Mudd et al.,
"Polarity Determination of GaN(0001) and InN(0001) Surfaces"
CMD-24 / ECOSS-29, Edinburgh, 2012 (Poster presentation).
- **M. Walker**, T.D. Veal, P.D.C. King, P.H. Jefferson, M.G. Brown, et al.
Investigation of the structure of InN(0001) surfaces following atomic hydrogen cleaning
The 16th Interdisciplinary Surface Science Conference (ISSC-16), St Andrews, Scotland (June 2007)
- **M. Walker**, M.G. Brown, M. Draxler and C.F. McConville
Re-evaluating the ion-atom interaction potential in LEIS
The 16th Interdisciplinary Surface Science Conference (ISSC-16), St Andrews, Scotland (June 2007)
- M.G. Brown, **M. Walker**, T.C.Q. Noakes, P. Bailey, M. Draxler and C.F. McConville
Determination of the sub-monolayer reconstructions of Cu(100)/Sn using MEIS
The 16th Interdisciplinary Surface Science Conference (ISSC-16), St Andrews, Scotland (June 2007)
- M.G. Brown, **M. Walker**, C.F. McConville, T.C.Q. Noakes, P. Bailey and M. Draxler
Determination of the Cu(100)-p(3√2×√2)R45°-Sn structure using medium energy ion scattering
The 24th European Conference on Surface Science (ECOSS-24), Paris, France (September 2006).
- **M. Walker**, C.R. Parkinson, M. Draxler and C.F. McConville
Growth of thin Platinum films on Clean and Oxidised Ni(110) Surfaces
The 55th Meeting of the Austrian Physical Society (ÖPG-55), Vienna, Austria (September, 2005)
- M. Draxler, **M. Walker** and C.F. McConville
How accurate are interaction potentials at low energies?
The 17th International Conference on Ion Beam Analysis, Sevilla, Spain (June, 2005)
- **M. Walker**, C.R. Parkinson, M. Draxler and C.F. McConville
Initial growth of platinum on clean and oxidised Ni(110) surfaces
The 17th International Conference on Ion Beam Analysis, Sevilla, Spain (June, 2005)
- M. Draxler, **M. Walker**, N.R. Wilson, L.F.J. Piper, T.D. Veal and C.F. McConville
Metallic indium formation during atomic hydrogen cleaning of InN(0001) surfaces
The 17th International Conference on Ion Beam Analysis, Sevilla, Spain (June, 2005)
- **M. Walker**, C.R. Parkinson, M. Draxler and C.F. McConville
Growth of Thin Platinum Films on Cu(100): A CAICISS, LEED and XPS Study
The 51st Annual Conference of the American Vacuum Society, Anaheim, CA, USA (November, 2004)
- **M. Walker**, C.R. Parkinson and C.F. McConville
Growth of Thin Pt Films on Ni(100) and Ni(110): A CAICISS, LEED and XPS Study
IoP Condensed Matter & Materials Physics Conference (CMMP04), University of Warwick (April, 2004)