

Publications and presentations bibliography

A. R. Buckingham

2007

Spin flop transitions driven by exchange springs in ErFe₂ / YFe₂ multilayers (*poster*)

A. R. Buckingham, K. N. Martin, C. G. Morrison, G. J. Bowden, P. A. J. de Groot, J. P. Zimmermann, H. Fangohr and R.C.C.Ward

Condensed Matter and Materials Physics (CMMP) 2007, University of Leicester, UK, April 2007.

2008

Engineering coercivity in epitaxial Laves phase RE – TM multilayers (*oral presentation*)

A. R. Buckingham, D. Wang, C. G. Morrison, G. J. Bowden, R.C.C.Ward, and P. A. J. de Groot

53rd Annual Conference on Magnetism and Magnetic Materials (MMM), Austin, Texas, USA, 10th – 14th November 2008.

2009

Room temperature magneto optic exchange springs in DyFe₂ / YFe₂ superlattices

D. Wang, C. G. Morrison, A. R. Buckingham, G. J. Bowden, R. C. C. Ward and P. A. J. de Groot

Journal of Magnetism and Magnetic Materials, vol. **321**, no. 6, pp. 586 – 589, 2009.

Nano- and Micro-Scale Patterned Arrays in Laves Phase Intermetallic Films and Multilayers (*poster*)

A. R. Buckingham, D. Wang, G. J. Bowden, R. C. C. Ward and P. A. J. de Groot

20th International Colloquium on Magnetic Films and Surfaces (ICMFS) 2009, Berlin, Germany, 20th – 24th July 2009.

Nano- and Micro-Scale Patterned Arrays in Laves Phase Intermetallic Films and Multilayers (*poster*)

A. R. Buckingham, D. Wang, G. J. Bowden, I. Nandhakumar, R.C.C. Ward and P. A. J. de Groot

Condensed Matter and Materials Physics (CMMP) 2009, University of Warwick, Warwick, UK, 15th – 17th December 2009.

2010

Temperature control of Fano resonances and transmission in superconducting metamaterials

V.A. Fedotov, A. Tsiatmas, J. H. Shi, R. Buckingham, P. de Groot, Y. Chen, S. Wang and N.I. Zheludev

Optics Express, vol. **18**, pp. 9015 – 9019, 2010.

Publications and presentations bibliography

A. R. Buckingham

Superconducting plasmonics and extraordinary transmission

A. Tsiatmas, A. R. Buckingham, V. A. Fedotov, S. Wang, Y. Chen, P. A. J. de Groot and N. I. Zheludev

Applied Physics Letters, vol. **97**, pp. 111106-1 – 111106-3, 2010.

Some comments on the magnetic moments used in REFe₂ exchange spring micro-magnetic simulations

G. J. Bowden, A. R. Buckingham, G. B. G. Stenning and P. A. J. de Groot

Journal of Physics: Condensed Matter, vol. **22**, no. 29, 2010.

Superconducting plasmonics and extraordinary transmission (*oral presentation*)

A. Tsiatmas, R. Buckingham, V. Fedotov, S. Wang, Y. Chen, P. de Groot and N. I. Zheludev
Metamaterials Congress 2010, Karlsruhe, Germany, 13th – 16th September 2010.

Superconducting plasmonics and extraordinary transmission (*oral presentation*)

A. Tsiatmas, R. Buckingham, V. A. Fedotov, S. Wang, Y. Chen, P. A. J. de Groot and N. I. Zheludev

Frontiers in Optics 2010, Rochester, USA, 24th – 28th October 2010.

Superconducting plasmonics: Extraordinary transmission and Fano resonances (*oral presentation*)

A. R. Buckingham, A. Tsiatmas, V. A. Fedotov, Y. Chen, P. A. J. de Groot and N. I. Zheludev

Condensed Matter and Materials Physics (CMMP) 2010, University of Warwick, Warwick, UK, 14th – 16th December 2010.

Magnetic anisotropy control by ion implantation in Rare-earth transition-metal Laves phase materials (*oral presentation*)

A. R. Buckingham, G. B. G. Stenning, G. J. Bowden, I. Nandhakumar, R.C.C. Ward and P. A. J. de Groot

Condensed Matter and Materials Physics (CMMP) 2010, University of Warwick, Warwick, UK, 14th – 16th December 2010.

2011

Switching the direction of magnetic anisotropy by Ar⁺ ion implantation in Laves phase YFe₂

A. R. Buckingham, G. J. Bowden, D. Wang, G. B. G. Stenning, I. Nandhakumar, R. C. C. Ward and P. A. J. de Groot

Submitted to *Applied Physics Letters*, 2011.

Magnetization reversal processes in ErFe₂ / YFe₂ exchange spring multilayer studied by x-ray magnetic circular dichroism

G. B. G. Stenning, A. R. Buckingham, G. J. Bowden, R. C. C. Ward, G. van der Laan, L. Shelford, F. Maccherozzi, S. Dhesi and P. A. J. de Groot

Submitted to *Physical Review B*, 2011.

Publications and presentations bibliography

A. R. Buckingham

Superconducting plasmonics and metamaterials: from extraordinary transmission to Fano resonances (*oral presentation*)

A. R. Buckingham, A. Tsiatmas, V. A. Fedotov, Y. Chen, P. A. J. de Groot and N. I. Zheludev

NANOMETA 2011, Seefeld in Tirol, Austria, 3rd – 6th January 2011.

Superconducting Plasmonics and Quantum Metamaterials (*oral presentation*)

A. Tsiatmas, A. R. Buckingham, V. Savinov, V. A. Fedotov, P. A. J. de Groot and N. I. Zheludev

The 5th International Conference on Surface Plasmon Photonics (SPP5), Busan, South Korea, 15th – 20th May 2011.

Superconducting Plasmonics (*invited talk*)

A. Tsiatmas, A. R. Buckingham, V. A. Fedotov and N. I. Zheludev

SPIE Optics and Photonics 2011, San Diego, USA, 21st 25th August 2011.

Superconducting Metamaterials and Plasmonics (*invited talk*)

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Vortex Matter in Nanostructured Superconductors, Rhodes, Greece, 10th – 17th September 2011.

Realising tunable, quantum and low-loss metamaterials and plasmonics with superconductors (*invited talk*)

A. R. Buckingham, A. Tsiatmas, V. Savinov, V. A. Fedotov, P. A. J. de Groot and N. I. Zheludev

Metamaterials Congress 2011, Barcelona, Spain, 10th – 15th October 2011.