

Conference presentations

- 39 *'Time-resolved Kerr imaging of nano-contact spin-torque vortex oscillators'* 62th Annual Conference on Magnetism and Magnetic Materials, 6-10 November 2017, Pittsburgh, PA, USA (*invited talk*)
- 38 *'The magnetization dynamics of nano-contact spin-torque vortex oscillators'* P.S. Keatley, Magnonics 2017, 7-10 August 2017, Oxford, UK (*invited talk*)
- 37 *'A platform for time-resolved scanning Kerr microscopy in the near-field'* P.S. Keatley, T.H.J. Loughran, E. Hendry, W.L. Barnes, and R.J. Hicken, INTERMAG Dublin 2017, 24-28 April 2017, Dublin, Ireland (*talk*)
- 36 *'Imaging magnetisation dynamics in nano-contact spin-torque vortex oscillators exhibiting gyrotropic mode splitting'* P.S. Keatley, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Dürrenfeld, and J. Åkerman, INTERMAG Dublin 2017, 24-28 April 2017, Dublin, Ireland (*poster*)
- 35 *'A platform for time-resolved scanning Kerr microscopy in the near-field'* P.S. Keatley, T.H.J. Loughran, E. Hendry, W.L. Barnes, and R.J. Hicken, Magnetism 2017, 3-4 April 2017, York, UK (*poster*)
- 34 *'Imaging magnetisation dynamics in nano-contact spin-torque vortex oscillators exhibiting gyrotropic mode splitting'* P.S. Keatley, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Dürrenfeld, and J. Åkerman, Magnetism 2017, 3-4 April 2017, York, UK (*poster*)
- 33 *'[The magnetization dynamics of nano-contact spin-torque vortex oscillators](#)'*; P.S. Keatley, APS March Meeting 2016, 13-17 March 2016, New Orleans, Louisiana, USA. (*invited talk*)
- 32 *'Direct observation of magnetization dynamics generated by spin-torque vortex oscillators'* P.S. Keatley, MOSAIC Workshop, 15-18 June 2016, Kusthotell, Varberg, Sweden. (*invited talk*)
- 31 *'Super-harmonic injection locking of a nano-contact spin-torque vortex oscillator'* P.S. Keatley, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Dürrenfeld, and J. Åkerman, Magnetism 2016, 4-5 April 2016, Sheffield, UK (*talk*)
- 30 *'Super-harmonic injection locking of a nano-contact spin-torque vortex oscillator'* P.S. Keatley, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Dürrenfeld, and J. Åkerman, 13th Joint MMM-Intermag Conference, 11-15 January 2016, San Diego, California, USA (*talk*)
- 29 *'A platform for time-resolved scanning Kerr microscopy at the near-field'* P.S. Keatley, T.H.J. Loughran, R.A.J. Valkass, E. Hendry, W.L. Barnes, R.J. Hicken, A. Amy, J. Einsle, P. Dawson, and R.M. Bowman, Optical Polarisation Conversion in the Near Field, 25-26 June 2015, University of Exeter, UK (*talk and poster*)

28. '*Magneto-optical observation of mutual phase-locking in a pair of spin-torque vortex oscillators*' P.S. Keatley, E. Burgos, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Durrenfeld, and J. Åkerman, 2015 InterMag Conference 11-15 May 2015, Beijing, China ([talk](#))
27. '*Magneto-optical observation of mutual phase-locking in a pair of spin-torque vortex oscillators*' P.S. Keatley, E. Burgos, G. Hrkac, R.J. Hicken, S.R. Sani, S.M. Mohseni, P. Durrenfeld, and J. Åkerman, Magnetism 2015, 30-31 March 2015, University of Leeds, UK ([talk](#))
26. '*Time-resolved scanning Kerr microscopy of magnetisation dynamics at the nanoscale*' P.S. Keatley and R.J. Hicken, Durham UK-India Workshop on Magnetisation Processes, 19-20 March 2015, Durham University, UK ([invited talk](#))
25. '*Time-resolved scanning Kerr microscopy of magnetisation dynamics at the nanoscale*' P.S. Keatley and R.J. Hicken, Symposium on 'Frontiers of magnetisation dynamics at the nanoscale' 59th Annual Magnetism and Magnetic Materials Conference, 3-7 November 2014, Honolulu, Hawaii, USA ([invited symposium talk](#))
24. '*Enhanced free layer relaxation in a microscale magnetic tunnel valve*' P.S. Keatley, V.V. Kruglyak, A. Neudert, R.J. Hicken, V.D. Poimanov, J.R. Childress, and J.A. Katine, 59th Conference on Magnetism and Magnetic Materials, 3-7 November 2014, Honolulu, Hawaii, USA ([talk](#))
23. '*Time-resolved Kerr microscopy of coupled transverse domain walls in a pair of curved nanowires*' P.S. Keatley, W. Yu, L. O'Brien, D. Read, R.P. Cowburn, and R.J. Hicken, Magnetism 2014, 7-8 April 2014, University of Manchester, UK ([talk](#))
22. '*Influence of a pure spin current on the magnetization dynamics of a single nanomagnet*' P.S. Keatley, R.J. Hicken, A. Aziz, M. Blamire, M. Ali, and B.J. Hickey, Magnetism 2014, 7-8 April 2014, University of Manchester, UK ([talk](#))
21. '*Time-resolved Kerr imaging of magnetisation dynamics generated by a nano-contact spin transfer vortex oscillator*' P.S. Keatley, S.R. Sani, T.H.J. Loughran, J. Åkerman, and R.J. Hicken, Magnetism 2014, 7-8 April 2014, University of Manchester, UK ([talk](#))
20. '*Time-resolved Kerr microscopy of coupled transverse domain walls in a pair of curved nanowires*' P.S. Keatley, W. Yu, L. O'Brien, D. Read, R.P. Cowburn, and R.J. Hicken, 58th Conference on Magnetism and Magnetic Materials, 4-8 November 2013, Denver, Colorado, USA ([talk](#))
19. '*Time-resolved Kerr imaging of magnetisation dynamics generated by a nano-contact spin transfer vortex oscillator*' P.S. Keatley, S.R. Sani, T.H.J. Loughran, J. Åkerman, and R.J. Hicken, 58th Conference on Magnetism and Magnetic Materials, 4-8 November 2013, Denver, Colorado, USA ([talk](#))
18. '*Influence of a pure spin current on the magnetization dynamics of a single nanomagnet*' P.S. Keatley, R.J. Hicken, A. Aziz, M. Blamire, M. Ali, and B.J. Hickey, 12th Joint MMM/InterMag Conference, 14-18 January 2013, Chicago, Illinois, USA ([talk](#))

17. '*Scanning Kerr microscopy: probing nanoscale magnetism with optics*' P.S. Keatley and R.J. Hicken, Nanolight Workshop, 8 June 2012, Institute of Physics, London, UK (*talk*)
16. '*Dynamic dipolar coupling of edge modes in a pair of nanoscale ferromagnetic discs*' P.S. Keatley, P. Gangmei, M. Dvornik, R.J. Hicken, J. Grollier and C. Ulysse, Spin Master Voice Workshop, 14-16 December 2011, Chateau de Villiers-le-Mahieu, France (*invited talk and poster*)
15. '*Dynamic dipolar coupling of edge modes in a pair of nanoscale ferromagnetic discs*' P.S. Keatley, P. Gangmei, M. Dvornik, R.J. Hicken, J.Grollier, and C. Ulysse, 56th Conference on Magnetism and Magnetic Materials, 30 October-3 November 2011, Scottsdale, Arizona, USA (*talk*)
14. '*Large amplitude magnetization dynamics and the suppression of edge modes in a single nanomagnet*' P.S. Keatley, P. Gangmei, M. Dvornik, R.J. Hicken, J.R. Childress, and J.A. Katine, Current Research In Magnetism, 21 September 2010, University of Durham, UK (*talk*)
13. '*Large amplitude magnetization dynamics and the suppression of edge modes in a single nanomagnet*' P.S. Keatley, P. Gangmei, M. Dvornik, R.J. Hicken, J.R. Childress, and J.A. Katine, 55th Conference on Magnetism and Magnetic Materials, 14-18 November, 2010, Atlanta, Georgia, USA (*talk*)
12. '*Time resolved magneto-optical imaging of spin waves in magnonic meta-materials: Current status and novel opportunities*' P.S. Keatley, P. Gangmei, M.K. Marcham, V.V. Kruglyak, A. Neudert, and R.J. Hicken, MAGNONICS kick-off meeting, 24-25 September 2009, University of Exeter, UK (*invited talk*)
11. '*Time- and vector-resolved Kerr measurements of large angle precessional reorientation in a $2 \times 2 \mu\text{m}^2$ ferromagnetic element*' P.S. Keatley, V.V. Kruglyak, A. Neudert, M. Delchini, R.J. Hicken, J.R. Childress, and J.A. Katine, Current Research in Magnetism, 15 December 2008, University College London, UK (*poster*)
10. '*Magnetization dynamics in arrays of nanomagnets with non-uniform ground state*' P.S. Keatley, V.V. Kruglyak, A. Neudert, E.A. Galaktionov, and R.J. Hicken, J. R. Childress, and J. A. Katine, Condensed Matter and Materials Physics, 26-28 March 2008, Royal Holloway, University of London, UK (*talk*)
9. '*Time- and vector-resolved Kerr measurements of large angle precessional reorientation in a $2 \times 2 \mu\text{m}^2$ ferromagnetic element*' P.S. Keatley, V.V. Kruglyak, A. Neudert, M. Delchini, R.J. Hicken, J.R. Childress, and J.A. Katine, 53rd Conference on Magnetism and Magnetic Materials, 10-14 November 2008, Austin, Texas, USA (*talk*)
8. '*Precessional magnetization dynamics in ultrathin magnetic nano-elements*' P.S. Keatley, V.V. Kruglyak, A. Neudert, R.J. Hicken, J.R. Childress, and J.A. Katine, Third Meeting of NEDO International Joint Research, 25-26 September 2007, Wiesbaden, Germany (*invited talk*)

7. '*Magnetization dynamics in arrays of non-ellipsoidal nanomagnets with non-uniform ground state*' P.S. Keatley, V.V. Kruglyak, A. Neudert, E.A. Galaktionov, R.J. Hicken, J. R. Childress, and J. A. Katine, 52nd Conference on Magnetism and Magnetic Materials, 5-9 November 2007, Tampa, Florida, USA (*talk*)
6. '*Magnetic field dependence of precessional mode character in magnetic nano-elements of realistic shape*' P.S. Keatley, V.V. Kruglyak, R.J. Hicken, J.R. Childress, and J.A. Katine, Condensed Matter and Materials Physics, 20-21 April 2006, University of Exeter, UK (*poster*)
5. '*Acquisition of vector hysteresis loops from microscale arrays of nano-magnets*' P.S. Keatley, V.V. Kruglyak, R.J. Hicken, J.R. Childress, and J.A. Katine, Spin and Nanomagnetism, September 2005, Institute of Physics, London, UK (*poster*)
4. '*Vector magneto-optical Kerr effect magnetometry: application to micro-arrays of sub-micrometer square ferromagnetic elements*' P.S. Keatley, R.J. Hicken, J.R. Childress, and J.A. Katine, Physics 2005 - A Century After Einstein, 10-14 April 2005, University of Warwick, UK (*poster*)
3. '*Acquisition of vector hysteresis loops from microscale arrays of nano-magnets*' P.S. Keatley, V.V. Kruglyak, R.J. Hicken, J.R. Childress, and J.A. Katine, 50th Annual Conference on Magnetism and Magnetic Materials, 30 October-3 November 2005, San Jose, California, USA (*talk*)
2. '*Use of microscale coplanar striplines with indium tin oxide windows in optical ferromagnetic resonance experiments*' P.S. Keatley, V.V. Kruglyak, A. Barman, S. Ladak, R.J. Hicken, J. Scott, and M. Rahman, Current Research in Magnetism, 24 November 2004, Institute of Physics, London, UK (*talk*)
1. '*Use of microscale coplanar striplines with indium tin oxide windows in optical ferromagnetic resonance experiments*' P.S. Keatley, V.V. Kruglyak, A. Barman, S. Ladak, R.J. Hicken, J. Scott, and M. Rahman, 49th Annual Conference on Magnetism and Magnetic Materials, 7-11 November 2004, Jacksonville, Florida, USA (*poster*)