

## Short Curriculum Vitae

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Scientific Interest: Magnetism, magnetic nanostructures, ultran thin magnetic films, biomagnetism

Previous experience:

- Founder and Director, Cavendish NanoTherapeutics Ltd, 2011 – present
- Visiting Scientist, *Cavendish Laboratory, University of Cambridge, UK*, 2010- present
- Cambridge Biomagnetics Ltd. (CBM), Content Development, Advisor, 2008-2010
- Resresrch Associate, *Cavendish Laboratory, University of Cambridge, UK*, 1998-2006

### Publication list (Selected papers)

1. **'Magnetic properties and antitumor effect of nanocomplexes of iron oxide and doxorubicin'**, Valerii Orel, Anatoliy Shevchenko, Andriy Romanov, Marina Tselepi, Thanos Mitrelias, Crispin H.W. Barnes, Anatoliy Burlaka, Sergey Lukin, Igor Shchepotin, *Nanomedicine: Nanotechnology, Biology and Medicine* 11 (2015) 47-55
2. **'Smoothing if ultrathin Fe films grown on GaAs(100) observed by scanning tunneling microscopy and Brillouin light scattering'**, D. M. Gillingham, M. Tselepi, A. Ionescu, S. J. Steinmuller, H. E. Beere, D. A. Ritchie, J. A. C. Bland, PRB, 76, p.214412 (2007)
3. **'Direct observation of a bulklike spin moment at the Fe/GaAs(100)-4x6 interface**, Claydon, JS; Xu, YB; Tselepi, M; et al., PHYSICAL REVIEW LETTERS 93( 3) p.037206, 2004
4. **'Spin dynamics in an ultrathin Fe film in the vicinity of the**

- superparamagnetic/ferromagnetic phase transition'**, Steinmuller, SJ; Tselepi, M; Wastlbauer, G; et al., PHYSICAL REVIEW B 70 (2) p.024420 (2004)
5. **'Magnetic moments of ferromagnetic, superparamagnetic, and submonolayer Fe on a GaAs(100) surface'** Claydon, JS; Xu, YB; Tselepi, M; et al., JOURNAL OF APPLIED PHYSICS, 95 (11) 6543-6545 (2004) Conference: 9th Joint Magnetism and Magnetic Materials Conference/ International Magnetism Conference Location: Anaheim, CA Date: JAN 05-09, 2004
  6. **'Interface bonding versus strain-induced magnetic anisotropy in epitaxial Fe/semiconductor structures'** McPhail, S; Gurtler, CM; Montaigne, F; et al., PHYSICAL REVIEW B 67 (2) p.024409 (2003)
  7. **Spin-selective transport through Fe/AlOx/GaAs(100) interfaces under optical spin orientation'**, Taniyama, T; Wastlbauer, G; Ionescu, A; et al., PHYSICAL REVIEW B, 68 13, p.134430 (2003)
  8. **Interface magnetic properties of epitaxial Fe-InAs heterostructures**, Xu, YB; Tselepi, M; Wu, J; et al., IEEE TRANSACTIONS ON MAGNETICS, 38, 5, p.2652-2654, (2002)
  9. **Spin dynamics in ultrathin Fe/GaAs (100)-(4x6) films at the ferromagnetic/superparamagnetic phase transition by in situ Brillouin light scattering**, Steinmuller, SJ; Tselepi, M; Strom, V; et al., JOURNAL OF APPLIED PHYSICS 91, 10, p.8679-8681 Part: 3 (2002)
  10. **'Effects of interdot dipole coupling in mesoscopic epitaxial Fe(100) dot arrays**, Xu, YB; Hirohata, A; Gardiner, SM; et al., IEEE TRANSACTIONS ON MAGNETICS 37 (4) p.2055 (2001)
  11. **Suppression of 90 degrees spin switching in Co nanomagnets grown on the Cu(110)-{2x1}O surface'**, Tselepi, M; Bode, PJ; Xu, YB; et al. JOURNAL OF APPLIED PHYSICS, 89, 11, p.6683 (2001)
  12. **Spin-polarized electron transport in ferromagnet/semiconductor hybrid structures (invited)**, Bland, JAC; Hirohata, A; Guertler, CM; et al., JOURNAL OF APPLIED PHYSICS 89, 11, p.6740 (2001)
  13. **Real time dynamics in epitaxial Fe(100) disks**, Gardiner, S; Rothman, J; Xu, YB; et al., JOURNAL OF APPLIED PHYSICS 89 (11) p.6790-6792 (2001)
  14. **Giant enhancement of orbital moments and perpendicular anisotropy in epitaxial Fe/GaAs(100)**, Xu, YB; Tselepi, M; Guertler, CM; et al., JOURNAL OF APPLIED PHYSICS 89 (11), p.7156 (2001)
  15. **Nucleation, growth and magnetic properties of Fe ultrathin films grown on InAs(100)-4 x 2**, Tselepi, M; Xu, YB; Freeland, DJ; et al., JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 226 p.1585 (2001)
  16. **Spin and orbital magnetic moments of ultrathin Fe films on GaAs(100) studied by X-ray magnetic circular dichroism**, Xu, YB; Tselepi, M; Dudzik, E; et al., JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 226 (SI) p. 1643 (2001)
  17. **Anisotropic lattice relaxation and uniaxial magnetic anisotropy in Fe/InAs(100)-4x2**, Xu, YB; Freeland, DJ; Tselepi, M; et al. PHYSICAL REVIEW B 62 (2) p 1167 (2000)
  18. **Uniaxial magnetic anisotropy of epitaxial Fe films on InAs(100)-4 x 2 and GaAs(100)-4 x 2**, Xu, YB; Freeland, DJ; Tselepi, M; et al., JOURNAL OF APPLIED PHYSICS 87 (9) p. 6110 (2000)
  19. **Micromagnetism in mesoscopic epitaxial Fe dot arrays**, Xu, YB; Hirohata, A;

Lopez-Diaz, L; et al., JOURNAL OF APPLIED PHYSICS 87 (9) p. 7019 (2000)

20. **Ferromagnetic metal/semiconductor heterostructures for magneto-electronic devices**, Xu, YB; Kernohan, ETM; Freeland, DJ; et al., SENSORS AND ACTUATORS A-PHYSICAL 81 (1-3) p. 258 (2000)
21. **Ferromagnetic/III-V semiconductor heterostructures and magneto-electronic devices**, Xu, YB; Freeland, DJ; Tselepi, M; et al., IEEE TRANSACTIONS ON MAGNETICS 35(5), p. 3661 (1999)