

MANUEL BIBES

Unité Mixte de Physique CNRS/Thales

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Date of birth : July 15, 1976
Place of birth : Sainte-Foy-la-Grande
(Gironde, France)
Citizenship : French
Marital status : civil partnership
Two children (born in 2010 and 2012)

EDUCATION AND QUALIFICATIONS

- 2012 **Habilitation Thesis** (Université Pierre et Marie Curie)
1993 -1998 **Master's Degree** in Solid State Physics, **Univ. de Toulouse III & INSA Toulouse.**
1993 -1998 **Engineering Degree** in Physics, **INSA Toulouse.**

PROFESSIONAL EXPERIENCE

- Dec. 2007 – **Unité Mixte de Physique CNRS/Thales**, Palaiseau, France.
Present CNRS Research Scientist (Chargé de Recherches 1ère classe CNRS)
Oct. 2003 – **Institut d'Electronique Fondamentale**, Univ. Paris-Sud, Orsay, France.
Dec. 2007 CNRS Junior Research Scientist (Chargé de Recherches 2ème classe CNRS)
Feb. 2007 – **Massachusetts Institute of Technology**, Francis Bitter Magnet Lab, USA.
Apr. 2007 Invited scientist in the group of Dr. J.S. Moodera
Project: Spin-filtering through complex oxide tunnel barriers
Mar. 2006 – **University of Cambridge**, Dept. of Materials Sc. & Dept. of Earth Sc., UK.
Apr. 2006 Invited scientist in the group of Dr. N.D. Mathur and Prof. J.F. Scott
Project: Multiferroic and magnetoelectric heterostructures
Aug. 2001 – **Unité Mixte de Physique CNRS/Thales**, Orsay, France.
Sept. 2003 Postdoctoral fellow in the group of Prof. A. Fert
Project: Magnetic tunnel junctions based on epitaxial oxide heterostructures
1998 - 2001 **PhD Thesis** in joint supervision, **Universitat Autònoma de Barcelona** (Spain) & **Institut National des Sciences Appliquées (INSA) de Toulouse** (France)
Project : Growth and properties of mixed valence manganite thin films

PRIZES AND AWARDS

- **EU40 Materials Prize**, European Materials Research Society (2013)
- International Union of **Materials Research Society Award**, Finalist (2012)
- **Prime d'excellence scientifique**, CNRS (2010)
- **Best Paper Award**, Japanese Society of Applied Physics (2007)
- **PhD thesis Award**, Universitat Autònoma de Barcelona (2001)

SUPERVISION AND STUDENT EVALUATION

- 4 Under-graduate students (3 months)
- 3 Master candidates (5 months)
- 8 PhD students (supervision and co-supervision)

TEACHING AND TRAINING EXPERIENCE

- 12h course on Spintronics (Master Degree in Physics, Univ. Toulouse III, 2003).
- 4h course on Spintronics (Master Degree in Physics, Univ. Tech. de Troyes, 2008, 2009, 2010, 2011).
- 4h course on Spintronics (Master Degree in Materials Science, Ecole Centrale Paris, 2009, 2010, 2011).
- Responsible for X-ray diffraction training of students and researchers, Institut d'Electronique Fondamentale (Orsay, France), 2006-2007 and Unité Mixte de Physique CNRS/Thales, since 2011.

EDITORIAL ACTIVITIES

- Guest **co-editor** for a Special Issue of **PHILOS. MAG. LETT.** on "Multiferroic and magnetoelectric thin films and devices" (March 2007).
- **Editor** of the **MRS Fall meeting Proceedings 2007** "Ferroelectrics & Multiferroics"
- **Co-editor** of the **JEMS Proceedings 2008** (published in **J. MAGN. MAGN. MATER.**).
- **Editor** of the **MRS Fall meeting Proceedings 2011** "Ferroelectrics & Multiferroics"
- More than 130 papers reviewed for journals like **NATURE MATER.**, **NATURE NANOTECH.**, **PHYS. REV. LETT.** etc.

ORGANIZATION OF INTERNATIONAL CONFERENCES

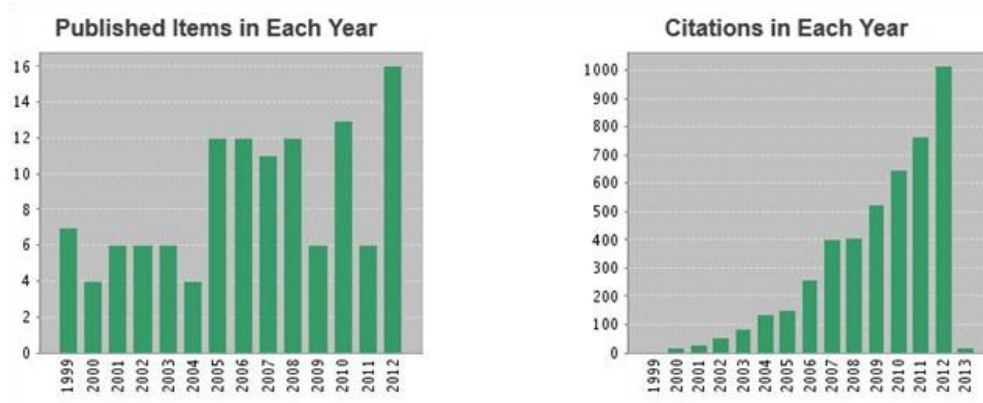
- Member of the **International Committee of the IEEE Magnetic MultiLayers Conference.**
- **Co-chair** of the **PROMOX2** workshop (Prospects on Magnetic Oxides), 2005, Fontevraud (France).
- **Co-chair** of the Symposium on "Ferroelectrics and Multiferroics", **MRS Fall meeting 2007**, Boston (USA)
- **Co-chair** of the Symposium on "Magnetic Oxide, Nitrides and d0 systems", **JEMS 2008**, Dublin (Ireland).
- **Co-organizer** of the **European School of Multiferroics**, 2010, L'aquila (Italy).
- **Co-organizer** of the Special Topic on "Magnetic oxide thin films", **APS March meeting 2011**, Dallas (USA).
- **Chair** of the **International School of Oxide Electronics**, Oct. 2011, Cargèse (France).
- **Co-chair** of the Symposium on "Ferroelectrics and Multiferroics", **MRS Fall meeting 2011**, Boston (USA).

OTHER PROFESSIONAL ACTIVITIES

- Consultant for the **International Technology Roadmap for Semiconductors**, since 2011
- Panel member for projects in Solid State Physics, **Agence Nationale de Recherche**, since 2013
- Expert for the French **Micro- and Nanotechnology Observatory (OMNT)**, since 2008
- Project reviewer for the **United States Dept. of Energy**
- Project reviewer for the French **Agence Nationale de Recherche**

PUBLICATIONS AND PRESENTATIONS

- **116 publications** in international peer-reviewed journals including 3 **NATURE**, 1 **SCIENCE**, 7 **NATURE MATER.**, 1 **NATURE NANOTECH.**, 1 **NATURE PHYS.**, 16 **PHYS. REV. LETT.**
- **5 patents**
- **>4500 citations ; H-index: 36** (from Web of Science)
- **1 plenary talk, 49 invited talks**, 40 invited presentations at universities and research labs, 28 contributed talks, 1 popular science lecture ; co-author of more that 50 invited or plenary talks.



Web of Science report, January 22, 2013.