**BIOGRAPHICAL SKETCH: MARCELO KNOBEL**

Instituto de Física Gleb Wataghin (IFGW), Universidade Estadual de Campinas (UNICAMP), P.O. Box 6165, Campinas 13.083-859 SP, Brazil

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Complete CV @ <http://lattes.cnpq.br/3557992461593136>

<http://scholar.google.com.br/citations?user=_UkQ7B8AAAAJ&hl=en>

<http://www.researcherid.com/rid/A-2843-2009>

<http://www.bv.fapesp.br/pt/pesquisador/715/marcelo-knobel/>

Researcher CNPq 1A (pesquisador 1A CNPq)

**PROFESSIONAL PREPARATION**

**Universidade Estadual de Campinas (Unicamp)** Physics B.S., 1989

Campinas, SP, Brazil

**Universidade Estadual de Campinas (Unicamp)** Physics Ph.D, 1992

Campinas, SP, Brazil

**APPOINTMENTS**

**Universidade Estadual de Campinas (Unicamp)**, Campinas, SP, Brazil

Full Professor, June 2008 - current

Associate Professor, March 2000 – June 2008

Assistant Professor, October 1995 – March 2000

Post-doctoral stage, January 1995 – October 1995

**Instituto de Magnetismo Aplicado**, Madrid, Spain

Post-doctoral stage, August 1994 - December 1994

**Istituto Elettrotecnico Nazionale Galileo Ferraris**, Turin, Italy

Post-doctoral stage, February 1993 - July 1994

**STATISTICS**: 270 archival publications, 5200+ total cites, H-Index=35; 8 book chapters, 1 book, Supervisor of Master thesis: 08; Supervisor of PhD thesis: 08

**FIVE RECENT MATERIALS RESEARCH PUBLICATIONS**

1. Béron, F.; Novak, M.A.; Vaz, M.G.F.; Guedes, G. P.; Knobel, M.; Caldeira, A.; [Pirota, K. R.](http://lattes.cnpq.br/3557992461593136). Macroscopic quantum tunneling of magnetization explored by quantum-first-order reversal curves. Applied Physics Letters, V. 103, p. 052407, 2013.

2. [Pirota, K. R.](http://lattes.cnpq.br/8910557213253128) ; Béron, F ; [Zanchet, D.](http://lattes.cnpq.br/0601216568829240) ; [Rocha, T. C. R.](http://lattes.cnpq.br/5424132182563620) ; Torrejón, J. ; Vazquez, M. ; KNOBEL, M. . Magnetic and structural properties of fcc/hcp bi-crystalline multilayer Co nanowire arrays prepared by controlled electroplating. *Journal of Applied Physics*, v. 109, p. 083919-1, 2011.

3. Kumar, Shalendra ; Koo, B. H. ; Lee, C. G. ; Gautam, S. ; Chae, K. H. ; [Sharma, S. K.](http://lattes.cnpq.br/3557992461593136) ; KNOBEL, M. . Room temperature ferromagnetism in pure and Cu doped ZnO nanorods: role of Copper or defects. *Functional Materials Letters*, v. 04, p. 17, 2011.

4. Bapna, K.; Choudhary, R. J.; Pandey, S. K.; Phase, D. M.; [Sharma, S.K.](http://lattes.cnpq.br/3557992461593136); KNOBEL, M. Electronic depiction of magnetic origin in undoped and Fe doped TiO2 d epitaxial thin films. *Applied Physics Letters*, v. 99, p. 112502, 2011.

5. Rebolledo, A.F. ; Laurent, S. ; Calero, M. ; Villanueva, A. KNOBEL, M. ; Marco, J.F. ; Tartaj, P. Iron Oxide Nanosized Clusters Embedded in Porous Nanorods: A New Colloidal Design to Enhance Capabilities of MRI Contrast Agents. *ACS Nano*, v. 4, p. 2095-2103, 2010.

**FIVE MOST HIGHLY CITED MATERIALS RESEARCH PUBLICATIONS**

**(See also http://scholar.google.com/citations?user=\_UkQ7B8AAAAJ&hl=en)**

1. Allia, P.; KNOBEL, M.; Tiberto, P.; Vinai, F. Magnetoresistance and Magnetic Properties of Melt-Spun Cu100-x-Cox Ribbons. *Physical Review B - Condensed Matter and Materials Physics*, v. 52, n. 21, p. 15398-15411, 1995.

2. KNOBEL, M. ; Sánchez, M. L. ; Gómez-Polo, C.; Hernando, A.; Marín, P.; Vázquez, M. Giant Magneto-Impedance Effect in Nanostructured Magnetic Wires. *Journal of Applied Physics*, v. 79, p. 1646-1654, 1996.

3. Allia, P. ; Coisson, M. ; Tiberto, P.; Vinai, F.; KNOBEL, M.; [Novak, M.A.](http://lattes.cnpq.br/3940543577818673); Nunes, W.C. Granular Cu-Co alloys as interacting superparamagnets. *Physical Review B - Condensed Matter and Materials Physics*, v. 64, p. 14442, 2001.

4. KNOBEL, M. ; [Pirota,](http://lattes.cnpq.br/8910557213253128) K.R. Giant Magnetoimpedance: Concepts and Recent Progress. *Journal of Magnetism and Magnetic Materials*, v. 242, p. 33-40, 2002.

5. [Ferrari, E.F.](http://lattes.cnpq.br/4649146843569357) ; Silva, F.C.S; KNOBEL, M. Influence of Magnetic Moment Distribution on the Magnetization and Magnetoresistance in Granular Alloys. *Physical Review B - Condensed Matter and Materials Physics*, v. 56, p. 6086-6092, 1997.

**Other ACTIVITIES and Awards**

**Professional memberships:**

- Member of Sociedade Brasileira de Física (SBF- Brazilian Physical Society).

- Member of American Physical Society (APS).

- Member of Sociedade Brasileira para o Progresso da Ciência (SBPC – Brazilian Society for the Advancement of Science)

- Founder member of the Sociedade Brasileira de Pesquisa em Materiais (SBPMat – Materials Research Society of Brazil)

- Member of Associação Brasileira de Centros e Museus de Ciência (Brazilian Association of Science Centers and Museums, ABCMC)

- Member of Materials Research Society (MRS).

**Activities related to publications:**

- Associate Editor of the Journal of Metastable and Nanocrystalline Materials, Trans Tech Publications (<http://www.scientific.net>).

- Co-editor of the abstracts book of the XII Reunião Anual de Usuários do Laboratório Nacional de Luz Síncrotron (LNLS) (annual meeting of the Brazilian Synchrotron Laboratory), February 2002.

- Editor of the Natural Sciences sector of the Magazine “Ciência e Cultura”, SBPC (Science & Culture, Brazilian Society for the Advancement of Science). 2002-2007.

- Member of the Editorial Commission of the Electronic Magazine “MultiCiência” (MultiScience) (<http://www.multiciencia.unicamp.br>). Since October 2003.

- Member of the Editorial Commission of the Editora da UNICAMP (UNICAMP Publisher). Since august 2006.

- Member of the Advisory Editorial Board of the Journal of Magnetism and Magnetic Materials (Elsevier), from January 2007 to december 2009.

- Editor in Chief of the Magazine “Ciência e Cultura” Sociedade Brasileira para o Progresso da Ciência (SBPC), Brazilian Society for the Advancement of Science, since december 2007.

- Member of “Brazil - Elsevier Advisory Board”, since october 2008.

- Coordinator of the book collection on science popularization “Meio de Cultura”, Editora da Unicamp, since 2008.

**Administration:**

- Chairman of the International Workshop ‘Trends on Nanostructured Magnetic Materials’, Rio de Janeiro, RJ, Brazil, October 21 to 23, 2002.

- Editor of the section “Radar da Ciência” (Science Radar) of the Electronic Magazine “ComCiência” (<http://www.comciencia.br>), August 2000- May 2005 (in Portuguese).

- Editor of the “Portal da Ciência” (Science Portal – http://www.ifi.unicamp.br/~knobel/PortaldaCiencia/), (in portuguese) (2000-2006).

- Coordinator of the Brazilian Network on NanoMagnetism (2002-2005).

- Coordinator of the Núcleo do Desenvolvimento da Criatividade (Creativity Development Center - NUDECRI), UNICAMP. From 18/06/2002 to 15/03/2006.

- President of the Development Commission of the Museu Exploratório de Ciências da UNICAMP (Science Museum). From february 2004 to march 2006.

- Executive Director of the Museu Exploratório de Ciências - UNICAMP, from 15/03/2006 to 15/03/2008.

- Coordinator of the graduate commission of the Master on Science and Culture Journalism (Divulgação Científica e Cultural), Instituto de Estudos da Linguagem (IEL), Unicamp.

- Vice-President for Undergraduate Programs (Pró-Reitor de Graduação) Unicamp, from May 2009 to April 2013.

**Summary of awards:**

- Honour Mention owing to the production of the introductiory vídeo of NanoAventura, Festival de Cine e Vídeo Científico do Mercosul (Scientific Movie and Video Festival, Cinecien 2006), Category “Vídeos e Filmes didáticos” (didactic videos and movies), Rio de Janeiro, december 4 to 7, 2006.

- Eisenhower Fellow 2007, chosen as unique brazilian representative on Eisenhower Fellowships, Multi-Nation Program 2007 (<http://eisenhowerfellowships.org>).

- "Young Scientist Prize“, 2nd. Edition. Third World Academy of Sciences (TWAS) - Regional Office for Latin America and the Caribbean (ROLAC). 29/05/2007.

- Fellow of the John Simon Guggenheim Memorial Foundation, Latin American and Caribbean Guggenheim Fellowship Awards, 2009 (<http://www.gf.org>).

- Commander of the National Order of the Scientific Merit (Comendador da Ordem Nacional do Mérito Científico), 2009, designated by the President Luiz Inácio Lula da Silva (03/03/2010).

- Peter Muranyi Prize 2013: Education; Fundação Peter Muranyi, 2013.