

## Curriculum vitae

Dr. Debakanta Samal

Nationality: Indian

### Education:

- 1997-2000: BSc (Physics Honours), FM University, Orissa, India
- 2000-2002: MSc Physics (Solid state specialization), Utkal University, Orissa, India.
- 2004-2010: Ph.D, Department of Physics, IISc, Bangalore, India  
(Thesis: *On the magnetic and magnetotransport studies of cobaltates and superconductor/ferromagnet heterostructures*)

### Research experience:

- Research Associate, Physics Department, IISc, Bangalore, India July 2010-May 2011
- Postdoc Researcher, University of Twente, Netherland June, 2011-present

### Honors and Awards:

- Qualified Joint Entrance Screening Test-2003( ~98 %ile)
- Qualified Graduate Aptitude Test in Engineering-2004 (98.62%ile)
- Qualified National Eligible Test -2004
- Ph.D thesis award at 55<sup>th</sup> DAE-Solid state physics symposium, India, 2010.
- Prof. Anil Kumar memorial medal (Experimental physics) IISc, Bangalore, 2010-2011

### Previous job employment/offer:

- Asst. Professor, NIT, Rourekela, India, Jan 2012-June 2013.
- Scientific officer, BARC, India, 2004.

### Selected publications:

- “Direct structural and spectroscopic investigation of ultrathin films of tetragonal CuO: Six-fold co-ordinated copper”(Forth-coming)  
**D Samal**, Haiyan Tan, Y. Takamura, W. Siemons, Jo Verbeeck, G. Van Tendeloo, E. Arenholz, C. A. Jenkins, G. Rijnders, and Gertjan Koster
- “Experimental evidence for oxygen sublattice control in polar infinite-layer SrCuO<sub>2</sub>”  
*Phys. Rev. Lett.* 111,096102 (2013)  
**D Samal**, Haiyan Tan, H. Molegraaf, B. Kuiper, Y. Takamura, W. Siemons, Sara Bals, Jo Verbeeck, G. Van Tendeloo, E. Arenholz, C. A. Jenkins, G. Rijnders, and Gertjan Koster
- “Structural-modulation driven low-temperature glassy behavior in SrRuO<sub>3</sub>” *Phys. Rev. B* 85, 224426 (2012)  
Chanchal Sow, **D Samal**, A. K. Bera, S. M. Yusuf, and P.S. Anil Kumar
- “A critical re-examination and a revised phase diagram of La<sub>1-x</sub>Sr<sub>x</sub>CoO<sub>3</sub>” *J. Phys.: Condens. Matter.* 23, 016001, (2010) (*Highlights 2011 collection for Journal of Physics: Condensed Matter*)  
**D Samal** and P.S. Anil Kumar
- “Magneto-transport study on La<sub>0.5</sub>Sr<sub>0.5</sub>CoO<sub>3-δ</sub> / YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> / La<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3-δ</sub>” tri-layer system” *Phys. Rev. B* 77, 094510 (2008)  
**D Samal**, C. Shivakumara, and P.S. Anil Kumar

**Popular science article:**

- “Giant Magneto resistance, Nobel Prize in Physics 2007”  
**D Samal** and P S Anil Kumar, RESONANCE, April 2008  
*Also at Wiley Interscience, Chem Inform Vol. 40, Issue 12, 2009*
- “Exchange Interaction: From the Helium spectrum to Ferromagnetism”  
**D Samal** and P S Anil Kumar (*to be published*)