

# RESUME

Dr. ATANU DAN

## PRESENT ADDRESS

Department of Physics  
M.U.C. Women's College  
Burdwan-713104  
West Bengal, India  
Ph. (91) 9434668970

## PERMANENT ADDRESS

*MATRASHIS*  
Kalibazar (East), Natunpally  
Burdwan-713101  
West Bengal, India  
Ph. (91342) 2566131

e-mail: [atanu\\_dan@hotmail.com](mailto:atanu_dan@hotmail.com)

**OBJECTIVE:** I have synthesized metallic silver and copper nanoparticles, nanojunctions, nanowires by electro-deposition, melt-quench and sol-gel techniques using silica glass as templates. Structural and electrical properties have been studied using XRD, TEM, SEM, AFM, DTA-TGA, Optical Microscope, Electrometer, AC Impedance Analyzer, and Spin Coater etc. Several interesting properties (like high dielectric permittivity, diode-like nature, field-emission etc.) have been observed.

**EDUCATION:** **Ph. D** entitled "*Preparation of Nanocomposites using Microphase Templates*" from Jadavpur University, Kolkata (2004) under the supervision of Prof. Dipankar Chakravorty.

**M. Sc.** in Physics (*First Class*) from The University of Burdwan, (1995-1997).

**B.Sc.** in Physics (*First Class*) from The University of Burdwan, (1992-1995).

**AWARD:** National Eligibility Test (*JRF*) in 1998.

Graduate Aptitude Test in Engineering (95.7) in 1998.

**FELLOWSHIP:** Senior Research Fellow at I.A.C.S., Kolkata (2000-2001).

Junior Research Fellow at I.A.C.S., Kolkata (1998-2000).

**EMPLOYMENT:** Associate Professor of Physics at M.U.C. Women's College (2013- till date)

Assistant Professor of Physics at M.U.C. Women's College (2008- 2013)

Senior Lecturer in Physics at Syamsundar College (2005-2008).

Lecturer in Physics at Syamsundar College (2001-2005).

**LIST OF PUBLICATION:**

1. Dielectric properties of nanocomposites of silver in a glass-ceramic containing the lithium niobate phase. **A. Dan**, D. Chakravorty *J. Mater. Res.* **15** (2000) 1324-1330.
2. Synthesis of conducting nanowires S. Banerjee, **A. Dan**, D. Chakravorty, *J. Mater. Sci.* **37** (2002) 4261-4271.
3. Diode-like behavior in glass-metal nanocomposites. **A. Dan**, B. Satpati, P.V. Satyam, D. Chakravorty *J. Appl. Phys.* **93** (2003) 4794-4800.
4. Glass-ceramic-metal nanocomposites containing a ferroelectric phase **A. Dan**, T.K. Kundu, B. Satpati, P.V. Satyam, D. Chakravorty *Ferroelectrics* **306** (2004) 95-109.
5. Nanotemplates and Nanointerfaces D. Chakravorty, **A. Dan**, P. K. Mukherjee, D.Das, S. Basu *Transactions of the Materials Research Society of Japan* **29** (2004) 37.
6. Suppression of ferroelectricity in Ultrathin Barium Titanate Films Grown within Mica-4 Interlayer Space **A. Dan**, P.K.Mukherjee, D. Chakravorty *J. Mater. Chem.* **15** (2005) 1477-1480.
7. Novel properties of glass-metal nanocomposites D. Chakravorty, S.Basu, P. K. Mukherjee, S.K.Saha, B. N. Pal, **A. Dan** and S. Bhattacharya *J. Non-Crystalline Solids* **352**, (2006) 601-609.
8. Surface conductivity of aligned carbon nanotubes in a silica gel **A. Dan.**, T. K. Kundu, D. Chakravorty *Int. J. of Nanoelectronics and Materials* **6**, (2013) 67-72.
9. Transmission Electron Microscope- A miracle. **A Dan** *Proceedings on Advanced Instruments in Current Research* (2013) 9-12.

#### **INTERNATIONAL CONFERENCE ATTENDED:**

1. International Seminar on **Global Warming**, November 23-24, 2011.
2. International Conference on **Soft Matter**, November 18-20, 2004.
3. International Conference on **Nanoscience and Technology**, December 17-20, 2003.
4. International Workshop on **Microscopic Techniques**, September 19-22, 2000.

#### **NATIONAL CONFERENCE ATTENDED:**

1. National Seminar on **Advanced Instruments in Current Research**, September 20-21, 2013
2. National Seminar on **History of Physics**, January 6-7, 2012.
3. National Seminar on **Women & Society in Colonial India**, November 29-30, 2011.
4. National Seminar on **Discourses on Popular Culture**, September 12-13, 2011.

5. National Conference on **Particle Physics and Cosmology**, March 24-25, 2011.
6. National Seminar on **Recent Reforms in Education in India**, October 1-2,2010
7. Winter School on **Nanoparticles-Science and Technology**, January 2-15, 2009
8. National Workshop on **Radiation Science and Applications**, November 10-12,2008
9. National Conference on **Uncertainty: A Mathematical Approach**, September 23-24,2008
10. National Workshop on **Characterization of Laser and Nanomaterials**, March 7-9,2008.
11. National Workshop on **Characterization of Laser and Nanomaterials**, January 19-21, 2007.
12. National Workshop on **Characterization of Laser and Nanomaterials**, January 25-27,2006.
13. National Workshop on **Advanced Laser and Nanomaterials**, January 25-27, 2005.

#### **OTHER PROGRAMMES ATTENDED:**

1. Speaker at Katoa Vigyan Parishad, 2<sup>nd</sup> August, 2014.
2. Seminar on **Trends in Astronomy, Astrophysics and Cosmology**, November 21-22, 2011.
3. Eleventh **Refresher Course in Physics**, January 7–27, 2010.
4. Convention on **Freedom in Computer Technology** December 26-28, 2008
5. Seminar on **Application of Radioisotopes, Radiation and Hadrons in Health Care**, September 26, 2008
6. Seminar on **The Institution of Electronics and Telecommunication Engineers**, March 31, 2008.
7. Fourth **Refresher Course in Computer Science**, 31<sup>st</sup> January –20<sup>th</sup> February, 2007.
8. Seminar on **Celebration of International Year of Physics and Science Population Programme**, December 22, 2005.
9. 48<sup>th</sup> **Orientation Programme** 14<sup>th</sup> July –10<sup>th</sup> August, 2004.
10. Seminar on **Paribesh Sachetanata O Suraksha**, January 19, 2002.
11. Seminar on **Fundamental of Computer Science**, September 25 – 26, 2001.
12. Seminar on **Lokganer Aloy Banglar Samoy O Sabhyater Itihas** October 10, 2001.

#### **REFERENCE:**

Prof. Dipankar Chakravorty,

INSA Senior Scientist, I.A.C.S.,  
Jadavpur, Kolkata 700032.