

CURRICULUM VITAE OF BHABESH ROY

Name : BHABESH ROY
Date of birth : 8th November, 1972
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Educational qualification

Name of Examination	Board/University	Year of passing	Marks
Madhyamic	W.B.B.S.E	1989	74.22%
Higher Secondary	W.B.C.H.S.E	1991	63.60%
B. Sc.	University of North Bengal	1995	65.12%
M.Sc.	Jadavpur University	1997	67.28
M.Tech.	IIT Kharagpur	1998	8.46 (cgpa)
PhD	Jadavpur University	2010	-

Ph. D. Thesis

Thesis title: STUDY OF TRANSPORT AND MAGNETIC PROPERTIES OF SOME RARE-EARTH METAL OXIDES

Area of work: Condensed matter physics.
Thesis supervisor: Prof. S. Das, Experimental Condensed Matter Physics (E.C.M.P)
Division, SINP, Kolkata -700064, West Bengal, India.
Place of work: E.C.M.P. Division, SINP, Kolkata, West Bengal, India.

Awards/Fellowships obtained

- Graduate Aptitude Test in Engineering (GATE), 1997
- CSIR (NET) Junior Research Fellowship, 1998

Research Interests

Material science/ Nano-materials.

Thesis Publications

1. *Study of the metal-insulator transition in $Y_{1-x}A_xTiO_3$ ($A = Ca, Sr, \text{ and } Ba$),* S. Das, A. Poddar and **B. Roy, J. Alloy Compd.** **358**, 17 (2003).
2. *Band filling dependence of the electrical transport of $Nd_{1-x}A_xTiO_3$ ($A = Ca, Sr, \text{ and } Ba$),* S. Das, A. Poddar and **B. Roy, J. Alloy Compd.** **375**, 15 (2004).
3. *Studies of transport and magnetic properties of Ce-doped $LaMnO_3$,* S. Das, A. Poddar, **B. Roy** and S. Giri, **J. Alloy Compd.** **365**, 94 (2004).
4. *Electrical transport properties and magnetic cluster glass behaviour of $Nd_{0.7}Sr_{0.3}MnO_3$ nanoparticles,* **B. Roy**, Das, A. Poddar and S. Das, **J. Appl. Phys.** **100**, 104318 (2006).
5. *Size-induced metal insulator transition and glassy behaviour in $La_{0.5}Sr_{0.5}CoO_3$ nanoparticle,* **B. Roy** and S. Das, **Applied Phys. Letter.** **92**, 233101 (2008).
6. *Magnetic cluster glass behaviour and grain boundary effect in $Nd_{0.7}Ba_{0.3}MnO_3$,* **B. Roy** and S. Das, **Applied Phys. Letter.** **104**, 103915 (2008).

Other Publications

1. *Magneto-impedance in Co-based amorphous wire and ribbon,* **B. Roy** and S. K. Ghatak, **J. Alloy Compd.** **326**, 198 (2001).
2. *Magnetic and electrical transport properties of $La_{0.5}A_{0.5}CoO_3$ nanoparticle ($A = Sr, Ca, \text{ and } Ba$),* **B. Roy** and S. Das, **J. Alloy Compd.** **509**, 5537 (2011).
3. *Doping Effect of Cr in Cluster Glass $La_{0.5}Sr_{0.5}CoO_3$,* **B. Roy** and S. Das, **AIP Conf. Proc.** **1447** 1101(2012).
4. *Photoluminescence study of Eu^{3+} doped $CaTiO_3$ phosphor.* **B. Roy**, A. Santra and U. K. Ghorai, **Proceedings of UGC sponsored national level seminar on recent advances in materials science,** 122 (2016).

Minor Research Project:

1. UGC sponsored Minor Research Project entitled “Study of magnetocaloric effect in some manganites” (UGC Ref. No. F. PSW-059/10-11(ERO) Dt. 20 Oct. 2010).
Status: Completed

2. UGC sponsored Minor Research Project entitled “*Study of luminescence properties of some titanates*” (UGC Ref. No. F. PSW-066/14-15(ERO) Dt. 02 Feb. 2015).
Status: Completed

Refresher Courses/Short term Courses Attended

1. UGC sponsored **Refresher Courses** on “*Nano Science & Technology*” from Academic Staff College, Jadavpur University, January 4-22, 2007.
2. UGC sponsored **Refresher Courses** on “*Recent Perspective of Nano Science & Technology*” from Academic Staff College, Jadavpur University, December 4- 26, 2008.
3. UGC sponsored **Refresher Courses** on “*Recent Development on Nano Science & Technology*” from Academic Staff College, Jadavpur University, September 10-30, 2013.
4. UGC sponsored **Short term Course** on “*Students Counseling & Guidance*” from Academic Staff College, University of Burdawn , December 24 – 30, 2014.
5. UGC sponsored **Refresher Courses** on “*Interdisciplinary Research Using Nano Science & Nanotechnology*” from Academic Staff College, Jadavpur University, March 9-28, 2015.

Seminar/Workshop Organized

1. *Organized a UGC sponsored National Level Seminar on “String Theory: The Present and The Future”* September 16-17, 2016, at Department of Physics, RKM Vidyamandira Belur Math, Belur, Howrah, W.B.

Participation in Conferences, School and Workshops

1. Presented talk on “*Metal-insulator transition in $Y_{1-x}A_xTiO_3$ ($A = Ca, Sr, and Ba$)*” in the National Seminar on “**42nd DAE – Solid State Symposium**”. Indira Gandhi Centre for Atomic Research, Kalpakkam, India, Dec. 20-24, 1999.
2. Participated the “*National Workshop on Measurement & Characterization of Magnetic Materials*”, SINP, Kolkata, India, April 20-21, 2006.
3. Presented a poster in International Conference on “**Laser and Nanomaterials**” Dept. of Physics C.U, Kolkata, Nov. 30-Dec. 2, 2006
4. Presented a poster in International Conference on “**Magnetic Materials**”, SINP, Kolkata, India, Dec. 11-16, 2007.
5. Presented a poster in National Seminar on “**56th DAE – Solid State Symposium**”, RSM University, Kattankulathur, Tamil Nadu, Dec. 19-23, 2011.