

# ANSHUMAN NANDY

Assistant Professor

Department of Physics, City College

**M.Sc. (IITG), Ph.D. (BU)**



## PERSONAL DETAIL

### Address for Correspondence:

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City College  
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**Gender:** Male  
**Nationality:** Indian

**Email:** [a.nandy@citycollegekolkata.org](mailto:a.nandy@citycollegekolkata.org)

**Phone:** 09434672809

**Research Degree:** Ph.D. in Physics from The University of Burdwan in November, 2017.

Topic: *Synthesis and characterization of some Perovskite and Zirconia based nanocrystals*

**Research Interest:** Microstructure and Magnetic Properties of Nanomaterials

**Number of Publications:** 15 Papers in peer-reviewed Journals, 1 book chapter, 2 Conference Proceedings

**Number of Citations:** 165 (Google Scholar)

**h-index:** 8 (Google Scholar)

Google Scholar Profile: [Click here](#)

My website: <https://sites.google.com/view/anandy/home>

### Permanent Address:

Village & Post- Baidyapur  
District-Purba Bardhaman  
P.S. - Kalna  
West Bengal-713122

**Date of birth:** 03.05.1987  
**Category:** General

## ACADEMIC TRAINING

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Orientation Programme	Teaching Learning Centre, Ramanujan College, University of Delhi	26.06.2020 to 24.07.2020	Ministry of Human Resource Development
Refresher Course	Teaching Learning Centre, Ramanujan College, University of Delhi	25.07.2020 to 10.08.2020	Ministry of Education

## QUALIFICATION

Examination	Name of the University	Year of passing	Class/grade
B.Sc.	Vivekananda Mahavidyalaya, The University of Burdwan	2009	1 <sup>st</sup>
M.Sc.	Indian Institute of Technology Guwahati	2011	1 <sup>st</sup>
Other examination	CSIR/UGC - NET	June, 2011	LS
	GATE	2010	Rank 455
	GATE	2011	Rank 717

## RESEARCH PUBLICATIONS

1. Alteration of magnetic behavior and microstructural distortion of  $\text{EuMnO}_3$  by partial substitution of Eu with monovalent Na  
[A Nandy, T Kar, SR Bhattacharyya, D Das, SK Pradhan](#)  
[Journal of Alloys and Compounds 715 \(2017\) 214-223](#) **I.F. 6.371(2021)**
2. Microstructure correlated ferromagnetism in manganese stabilized zirconia nanoparticles  
[A Nandy, U Pal, SK Pradhan](#)  
[Journal of Alloys and Compounds 793 \(2019\) 220-231](#) **I.F. 6.371(2021)**
3. Effect of sodium doping on the microstructure, lattice distortion and magnetic properties of  $\text{GdMnO}_3$  tiny single crystals  
[A. Nandy, A. Roychowdhury, T. Kar, D. Das, S. K. Pradhan](#)  
[RSC Advances 6 \(2016\) 20609](#) **I.F. 4.036 (2021)**
4. Effects of monovalent cation doping on the structure, microstructure, lattice distortion and magnetic behavior of single crystalline  $\text{NdMnO}_3$  compounds  
[A. Nandy, S. K. Pradhan](#)  
[Dalton Transactions 44 \(2015\) 17229](#) **I.F. 4.569 (2021)**

5. Effect of Manganese (II) Oxide on microstructure and ionic transport properties of nanostructured cubic zirconia  
[A. Nandy](#), [C.S. Tiwary](#), [A. Dutta](#), [K. Chattopadhyay](#), [S.K. Pradhan](#)  
**Electrochimica Acta** **170** (2015) 360–368 **I.F. 6.901 (2021)**
6. Microstructure correlated electrical conductivity of Manganese alloyed nanocrystalline cubic zirconia synthesized by mechanical alloying  
[A. Nandy](#), [A. Dutta](#), [S. K. Pradhan](#)  
**Advanced Powder Technology** **28** (2017) 618-628 **I.F. 4.833 (2021)**
7. Structural and magnetic characterizations of undoped and K-doped NdMnO<sub>3</sub> single crystals synthesized by sol–gel route:  
A comparative study  
[A. Nandy](#), [A. Roychowdhury](#), [D. Das](#), [S.K. Pradhan](#)  
**Powder Technology** **254** (2014) 538–547 **I.F. 5.134 (2021)**
8. Microstructure and optical characterizations of mechanosynthesized nanocrystalline semiconducting ZrTiO<sub>4</sub> compound  
[H. Dutta](#), [A. Nandy](#), [S.K.Pradhan](#)  
**Journal of Physics and Chemistry of Solids** **95** (2016) 56–64 **I.F. 3.995 (2021)**
9. Microstructure characterization and electrical transport properties of nanocrystalline Fe and Fe-doped cubic zirconia cermets synthesized by mechanical alloying  
[S. Saha](#), [A. Nandy](#), [A.K. Meikap](#), [S.K. Pradhan](#)  
**Materials Research Bulletin** **68** (2015) 66–74 **I.F. 5.6 (2021)**
10. Structural and magnetic properties of La<sub>2</sub>Ni<sub>1-x</sub>Co<sub>x</sub>MnO<sub>6</sub> compounds  
[D Pramanik](#), [S Mukherjee](#), [S Dan](#), [A Nandy](#), [SK Pradhan](#), [P Dasgupta](#), [A Poddar](#), [M Mukherjee](#), [B Manjunath](#), [P Joy](#)  
**Materials Research Bulletin** **102** (2018) 248-256 **I.F. 5.6 (2021)**
11. Electric modulus formalism and electrical transport property of ball mill synthesized nanocrystalline Mn doped ZrO<sub>2</sub> solid solution  
[S. Saha](#), [A.Nandy](#), [A.K.Meikap](#), [S.K.Pradhan](#)  
**Physica B** **479** (2015) 67–73 **I.F. 2.436 (2021)**
12. Electrical transport and dielectric modulus formalism of CuO doped ZrO<sub>2</sub> partially stabilized solid solution  
[S. Saha](#), [A.Nandy](#), [S.K.Pradhan](#), [A.K.Meikap](#)  
**Materials Research Bulletin** **88** (2017) 272–280 **I.F. 5.6 (2021)**
13. Structure and microstructure dependent ionic conductivity in 10 mol% Dy<sub>2</sub>O<sub>3</sub> doped CeO<sub>2</sub> nanoparticles synthesized by mechanical alloying  
[S. Dutta](#), [A. Nandy](#), [A. Dutta](#), [S.K. Pradhan](#)  
**Materials Research Bulletin** **73** (2016) 446–451 **I.F. 5.6 (2021)**
14. Structural Characterization and Electrical Conductivity of Mechanically Alloyed 10mol% In<sub>2</sub>O<sub>3</sub>–Doped CeO<sub>2</sub> Nanoparticles  
[S Dutta](#), [A Nandy](#), [AK Das](#), [AK Meikap](#), [SK Pradhan](#)  
**Current Physical Chemistry** **7** (3) (2017) 235-242
15. Preparation and Characterization of Charge Ordered Nd<sub>0.8</sub>Na<sub>0.2</sub>MnO<sub>3</sub> Thin Film

**A. Nandy, T. Bora, B. Samantaray, R. K. Bhuyan, D. Pamu, S. Ravi**  
**AIP Conf. Proc. 1447, 1117-1118 (2012)**

16. Preparation and Characterization of  $\text{Nd}_{0.8}\text{K}_{0.15}\text{MnO}_3$  Thin Film  
**T. Bora, A. Nandy, B. Samantaray, R. K. Bhuyan, D. Pamu, S. Ravi**  
**AIP Conf. Proc. 1447, 1119-1120 (2012)**

17. Magnetic, Electrical and Optical Properties of  $\text{Nd}_{0.85}\text{K}_{0.15}\text{MnO}_3$  Thin Film  
**T. Bora, A. Nandy, R. K. Bhuyan, D. Pamu, S. Ravi**  
**Book Chapter, Advanced Nanomaterials and Nanotechnology, 449-455, Springer Berlin Heidelberg, 2012**

18. Synthesis and Characterization of K-doped  $\text{NdMnO}_3$   
**A. Nandy, S. K. Pradhan**  
Proceedings of National Level Seminar on "Modern Physics: Some Aspects at a Glance"  
**ISBN: 978-93-80663-98-2**

## PROJECTS

- **Synthesis of Solid Oxide Fuel Cell Nanomaterials By Mechanical Alloying And Their Microstructural Characterizations**  
Supervisor: Prof. K. Chattopadhyay  
HOD, Department of Materials Engineering,  
Indian Institute of Science, Bangalore
- **Study of Magnetic Properties of Multilayered Manganites**  
Supervisor: Prof. S. Ravi  
HOD, Department of Physics,  
Indian Institute of Technology, Guwahati

## Conferences/ Seminars with Presentation:

1. DAE-SSPS 2011 at SRM University, Chennai (Poster Presentation).
2. FNSCMPLA-2012 at The University of Burdwan (Poster Presentation).
3. SNSCMPLA-2012 at The University of Burdwan (Poster Presentation).
4. TNSCMPLA-2013 at The University of Burdwan (Poster Presentation).
5. NSSFS-2013 at Jadavpur University (Poster Presentation).
6. Modern Physics: some aspects at a glance-2013 at Sreegopal Banerjee College (Poster Presentation, Published under ISBN).
7. CCMPM 2013 at Kalyani University (Poster Presentation).
8. West Bengal State Science Congress 2014 at The University of Burdwan (Poster Presentation) (**Best Poster Award**).
9. National Thematic Workshop 2016 at The University of Burdwan (**Oral Presentation**)
10. NanoCon 2016 at Jadavpur University (**Oral Presentation**)

11. Condensed Matter Days 2018: A National Conference Condensed Matter Physics, The University of Burdwan (**Oral Presentation**)
12. National Conference on Materials Science, Nanomaterials and its applications in Biological Science (MSNBS-2023), Durgapur Government College (**Oral Presentation**)

### **Seminars Attended:**

1. A one-day workshop on CBCS Physics Syllabus, Bangabasi College
2. National Conference on Future India: Science and Technology, City College
3. One day seminar cum workshop on Python Computing: Some applications in Mathematical Physics, Basanti Devi College

### **Quality Improvement Program**

Short term QIP course on “Numerical Techniques in Physics” at IIT Guwahati on August 2011

### **HOBBIES AND OTHER INTEREST**

Travelling, Indian Classical music, Indian Art films, Novels & short stories by Indian writers.