

## Resume of Dr. Sadhan Chanda



Full Name: Dr. Sadhan Chanda

Designation: Assistant professor

Institution: Vivekananda College, Madhyamgram(Affiliated to West Bengal State University )

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### Academic Qualification

Examenation	Board/University	Marks obtained (%)	Year of obtaining the degree
Madhyamik (10)	W.B.B.S.E	89.50	2003
H.S. (10+2)	W.B.C.H.S.E	86.90	2005
B.Sc. (Hons) in Physics	University of Calcutta (R. K. M. Residential College, Narendrapur)	66.37	2008
M. Sc. in Physics	University of Calcutta	67.6	2010
Ph. D. in experimental Physics	Bose Institute (University of calcutta)	NA	2016

### Teaching Experience

I have worked as an assistant professor in the department of Physics of The Heritage College since 15th July 2016 to 20<sup>th</sup> May 2020.

### Exam Qualified

NET- Eligibility for Lectureship (LS) (2012)

Gate-All India Rank **455**(2010)

JEST- All India Rank **34**(2010)

**Thesis Title:** "Optoelectronic behaviour of pure and magnetically doped rare earth based perovskite oxide nano-particles" under the supervision of Prof. T. P. Sinha, Bose Institute, Kolkata.

**Programming language known:** Fortran

**Simulation Packages Known:** Vienna Ab initio simulation package (VASP), WIEN2k.

**Research Interests:** I am interested in preparing advanced materials and to study structural, dielectric, magnetic and optical properties. I have prepared some perovskite oxide in nano and bulk both phases and investigated structural, dielectric, magnetic and optical properties. I have also applied the density functional theory (DFT) calculations and compare the experimental results with simulated values.

### Research Publications:

#### In peer reviewed journals

1. **Sadhan Chanda**, Sujoy Saha, Alo Dutta and T.P. Sinha (2013), [Raman spectroscopy and dielectric properties of nanoceramic NdFeO<sub>3</sub>](#), **Materials Research Bulletin**, vol.48, pp. 1688–1693.
2. **Sadhan Chanda**, Sujoy Saha, Alo Dutta, A. S. Mahapatra, P. K. Chakrabarti, Uday Kumar, T. P. Sinha, [Multiferroicity in La<sub>1/2</sub>Nd<sub>1/2</sub>FeO<sub>3</sub> nanoparticles](#), **Solid State Sciences**, **37** (2014), 55-63.
3. **Sadhan Chanda**, Sujoy Saha, Alo Dutta and T. P. Sinha, ["Structural and transport properties of double perovskite Dy<sub>2</sub>NiMnO<sub>6</sub>"](#). **Materials Research Bulletin**, **62** 153 (2015).
4. **Sadhan Chanda**, Sujoy Saha, Alo Dutta, Bushra Irfan, Ratnamala Chatterjee, T.P. Sinha, ["Magnetic and Dielectric properties of orthoferrites La<sub>1-x</sub>Pr<sub>x</sub>FeO<sub>3</sub> \(x = 0, 0.1, 0.2, 0.3, 0.4 and 0.5\)"](#), **Journal of Alloys and Compounds**, **649**, (2015), 1260-1266.
5. Indrani Das, **Sadhan Chanda**, Alo Dutta, Sourish Banerjee, T.P. Sinha, [Dielectric relaxation of Y<sub>1-x</sub>R<sub>x</sub>FeO<sub>3</sub> \(R = Dy, Er, x = 0, 0.5\)](#). **Journal of Alloys and Compounds** 571 (2013) 56–62.
6. Chandrasahas Bharti, **Sadhan Chanda**, T.P.Sinha, [Electrical transport mechanism in a newly synthesized rare earth double perovskite oxide Sr<sub>2</sub>CeTaO<sub>6</sub>](#), **Physica B** 409 (2013) 87–92.
7. Rajesh Mukherjee, **Sadhan Chanda**, Chandrasahas Bharti, P. Sahu, T. P. Sinha, [Micro-structure, optical properties and ac conductivity of rare earth double perovskite oxides: Sr<sub>2</sub>ErNbO<sub>6</sub>](#), **Physica B** 422(2013)78–82.

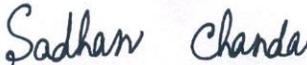
8. Sujoy Saha, **SadhanChanda**, Alo Dutta and T.P. Sinha (2013), [Dielectric relaxation of NdMnO<sub>3</sub> nanoparticles](#), **Materials Research Bulletin**, vol.48, pp. 4917–4923.
9. Chandrahas Bharti, Mrinmoy K. Das, A. Sen, **SadhanChanda** and T. P. Sinha, [Rietveld refinement and dielectric relaxation of a new rare earth based double perovskite oxide: BaPrCoNbO<sub>6</sub>](#), **Journal of Solid State Chemistry**, 210 (2014) 219–223.
10. Chandrahas Bharti, A. Sen, **SadhanChanda**, T.P. Sinha, [Structural, vibrational and electrical properties of ordered double perovskite oxide BaLaMnSbO<sub>6</sub>](#), **Journal of Alloys and Compounds** 590 (2014) 125–130.
11. Sujoy Saha, **SadhanChanda**, Alo Dutta and T. P. Sinha, [Dielectric relaxation and phonon modes of NdCrO<sub>3</sub> nanostructure](#), **Journal of Sol-Gel Science and Technology**, 69 (2014) 553-563.
12. Sujoy Saha, **SadhanChanda**, Alo Dutta, Uday Kumar, Rajeev Ranjan and T. P. Sinha, [Dielectric relaxation and anti-ferromagnetic coupling of BiEuO<sub>3</sub> and BiGdO<sub>3</sub>](#), **Journal of Magnetism and Magnetic Materials**, 360 (2014) 80–86.
13. S.K. Ghosh, M. Ganguly, S.K. Rout, **S. Chanda**, T.P. Sinha, [Structural, optical and dielectric relaxor properties of neodymium doped cubic perovskite \(Ba<sub>1-x</sub>Nd<sub>2x/3</sub>\)\(Zr<sub>0.3</sub>Ti<sub>0.7</sub>\)O<sub>3</sub>](#), **Solid State Sciences** 30 (2014) 68-77.
14. Chandrahas Bharti, Mrinmoy K. Das, A. Sen, **Sadhan. Chanda**, T.P. Sinha, [Cationic ordering, relaxation dynamics and polaron hopping in a new double perovskite oxide: BaPrCoTaO<sub>6</sub>](#), **Journal of Alloys and Compounds**, 617 (2014) 677-682.
15. Anup Pradhan Sakhya, Jameson Maibam, Sujoy Saha, SadhanChanda, Alo Dutta, B Indrajit Sharma, R K Thapa, T P Sinha, ["Electronic structure and elastic properties of ATiO<sub>3</sub> \(A = Ba, Sr, Ca\) perovskites: A first principles study"](#), **Indian Journal of Pure & Applied Physics**, 53 (2015) 102-109.
16. **Sadhan Chanda**, Alo Dutta, Sujoy Saha, Satadeep Bhattacharjee and T. P. Sinha, ["Electronic Structure of Double Perovskite Lu<sub>2</sub>CoMnO<sub>6</sub>"](#), **Advanced Science Letters**, (accepted).
17. Sujoy Saha, **SadhanChanda**, Alo Dutta, Dipankar Das, T.P. Sinha, ["Dielectric dispersion and antiferromagnetism in BiTb<sub>x</sub>Fe<sub>1-x</sub>O<sub>3</sub> \(x = 1.0, 0.75\)"](#), **Journal of Magnetism and Magnetic Materials**, 398(2016) 289-297.
18. Indrani Das, **SadhanChanda**, Sujoy Saha, Alo Dutta, Sourish Banerjee, SudiptaBandyopadhyay and T. P. Sinha, [Electronic structure and transport properties of antiferromagnetic double perovskite Y<sub>2</sub>AlCrO<sub>6</sub>](#), **RSC Adv.**, 2016, 6, 8041.
19. **SadhanChanda**, Sujoy Saha, Alo Dutta, J. Krishna Murthy, A. Venimadhav, Santiranjana Shannigrahi and T. P. Sinha, ["Magnetic ordering and conduction mechanism of different electroactive regions in Lu<sub>2</sub>NiMnO<sub>6</sub>"](#) **Journal of Applied Physics** 120, 134102 (2016).
20. Md. Sariful Sheikh, SadhanChanda, ArkaDey, Alo Dutta, ParthaPratim Ray, and T. P. Sinha ["Investigation Of Light Induced Charge Transport Properties In Dy<sub>2</sub>NiMnO<sub>6</sub> Perovskite Based Schottky Diode"](#) **FERROELECTRICS** 2017, VOL. 518, 204–211
21. Md Sariful Sheikh., **SadhanChanda**, Alo Dutta, Sayantani Das, T. P. Sinha ["Schottky diode like behaviour in Ag/Dy<sub>2</sub>NiMnO<sub>6</sub>/FTO device"](#) **Materials Today: Proceedings** 5 (2018) 9839–9845.

**Conferences, schools and workshops attended:**

1. **National Seminar on Ferroelectrics & Dielectrics (NSFD)** at *Guru Ghasidas Vishwavidyalaya (Bilaspur, Chhattisgarh)* during 2-4 December 2010.
2. **Recent Trends in Materials Science (RTMS)** at *Jaypee University of Information Technology (Waknaghat, Himachal Pradesh)* during 8-10 October 2011.
3. **IEEE Magnetics Summer School** at *SRM University (Potheri, Kancheepuram, Tamil Nadu)* during 23-27 July 2012.
4. **Condensed Matter Days (CM Days–2012)** at *Birla Institute of Technology (Ranchi, Jharkhand)* during 29-31 August 2012.
5. **DAE-Solid State Physics Symposium (DAE-SSPS)** at *IIT Bombay, (Mumbai)* 3-7 December 2012. (Published: AIP Conf. Proc. 1512, 216 (2013)).
6. **National Seminar on Ferroelectrics & Dielectrics (NSFD)** at *Siksha 'O' Anusandhan University (Kalinga Nagar, Orissa)* during 17-19 December 2012.
7. **Third National Seminar on Recent Trends in Condensed Matter Physics Including Laser Application** at *University of Burdwan (Burdwan, West Bengal)* during 5-7 March 2013.
8. **International Union of Materials Research Society-International Conference in Asia** at *Indian Institute of Science (Bangalore)* during 16-20 December 2013.
9. **Condensed Matter Days (CM Days–2014)** at *Centre for Research in Nanoscience and Nanotechnology, University of Calcutta (Kolkata, West Bengal)* during 27–29 August 2014.
10. **National Seminar on Ferroelectrics & Dielectrics (NSFD–XVIII)** at *Manipur University (Imphal, Manipur)* during 3–5 November 2014.
11. **International Workshop/Conference on Computational Condensed Matter Physics and Materials Science (IWCCMP–2014)** at *ABV–Indian Institute of Information Technology and Management (Gwalior, Madhya Pradesh)* during 25–30 November 2014.
12. **2nd National Seminar on Nanoscience and Nanotechnology, NSNN-2017** at *School of Applied Science & Humanities, Haldia Institute of Technology* during 17-18th March 2017.
13. **National Conference on Recent Trends in Condensed Matter Physics** at *Bose Institute, Kolkata* during October 31 - Nov 3, 2017.
14. **A one day workshop on CBCS-Physics Syllabus** at *Department of Physics, Bangabasi College, Kolkata* on 7th May, 2018.

Place : Kolkata

Date : 20<sup>th</sup> July, 2020



Signature