

Curriculum Vitae

a) PERSONAL DETAILS

Name: [Truptimayee Sahu](#)

Date of Birth: 15th Nov 1990

Gender: Female

Nationality: Indian

Language Known: English, Hindi, Oriya

Discipline: [Condensed Matter Physics, Materials Science](#)

Permanent Address

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(b) **Details of Qualification:**

- Doctor of Philosophy (Ph.D., Awarded on Dt. 05.08.2019)

Subject: Physics

University: [Sambalpur University](#), Odisha, India

Thesis title: Investigations of some rare earth doped multiferroic composites.

- Master of Philosophy (M.Phil, Jan-Dec 2014)

Subject: Physics

University: [Sambalpur University](#), Orissa, India

Thesis title: A Study of Nuclear Matter With Emphasis on Properties of Spin Polarised Neutron Matter using Skyrme Effective Interaction.

Remarks: 1st Class

- Master of Science (M. Sc., 2011-2013)
Subject: Physics
University: [Sambalpur University](#), Orissa, India
Remarks: 1st Class
- Bachelor of Science (B.Sc, May 2011)
Subjects: Physics (Honours)
University: [Sambalpur University](#), Orissa, India
Remarks: 1st Class with distinction

Research experience: Four years of research experience in experimental Condensed Matter Physics (2 years as JRF (DST INSPIRE Fellow) from 2015-2017 and 2 years as SRF (DST INSPIRE Fellow) 2017-2019).

(c) Details of Publications:

- (1) **Truptimayee Sahu**, Ajit K. Patra and Banarji Behera, *Effect of gadolinium doping on structural, ferroic and electrical properties of $0.8\text{BiGd}_x\text{Fe}_{1-x}\text{O}_3-0.2\text{PbTiO}_3$ ($x=0.00, 0.05, 0.10, 0.15$ and 0.20) composites*, Journal of Alloys and Compounds, **695** (2017) 2273-2284.
- (2) **Truptimayee Sahu** and Banarji Behera, *Investigation on structural, dielectric and ferroelectric properties of samarium substituted $\text{BiFeO}_3\text{-PbTiO}_3$ composites*, Journal of Advanced Dielectrics, **7** (2017) 1750001-1750006.
- (3) **Truptimayee Sahu** and Banarji Behera, *Relaxation Processes and Conduction Mechanism in Bismuth Ferrite Lead Titanate Composites*, Journal of Physics and Chemistry of Solids, **113** (2018) 186-193.
- (4) **Truptimayee Sahu** and Banarji Behera, *Dielectric and electrical study along with the evidences of small polaron tunnelling in Gd doped bismuth ferrite lead titanate composites*, Journal of Materials Science: Materials in Electronics, **29** (2018) 7412-7424.
- (5) **Truptimayee Sahu** and Banarji Behera, *Dielectric and Electrical Properties and Conduction Mechanism Study of $0.6\text{BiFeO}_3-0.4\text{PbTiO}_3$* , Transactions in Electrical and Electronic Materials, **19** (2018) 396-402.
- (6) **Truptimayee Sahu** and Banarji Behera, *Dielectric, electrical and magnetic study of rare earth doped bismuth ferrite lead titanate*, Applied Physics A, **125** (2019) 407-419.

(d) Details of Conferences/workshops attended

List of conference presentations

- (1) **Truptimayee Sahu** and Banarji Behera, “*Dielectric and Electrical Properties of $0.8\text{BiGd}_x\text{Fe}_{1-x}\text{O}_3-0.2\text{PbTiO}_3$ ($x=0.00, 0.05$ and 0.10) composites*”, International Conference On Multifunctional Materials For Future Applications (ICMFA-2015), 27-29th October 2015, Department Of Chemistry, Indian Institute Of Technology, Banaras Hindu University, Varanasi-221005, India.
- (2) **Truptimayee Sahu**, Banarji Behera, “*Structural and Dielectric Properties of $0.8\text{BiGd}_x\text{Fe}_{1-x}\text{O}_3-0.2\text{PbTiO}_3$ ($x=0.15$ and 0.20) composites*”, International Conference On Frontiers In Material Science And Technology, (ICMFST-2015), 10-12th December 2015, National Institute Of Science And Technology, Palur Hills, Berhampur-761008, Odisha, India.
- (3) **Truptimayee Sahu** and Banarji Behera, “*Structural, Dielectric and Ferroelectric Study of $0.8\text{BiSm}_x\text{Fe}_{1-x}\text{O}_3-0.2\text{PbTiO}_3$ ($x=0.05, 0.10, 0.15$ and 0.20) composites*”, International Conference On Technologically Advanced Materials & Asian Meeting On Ferroelectricity (ICTAM-AMF10), 7-11th November 2016, University of Delhi, New Delhi-110007, India.
- (4) **Truptimayee Sahu** and Banarji Behera, “*Dielectric and Ferroelectric Properties of $0.6\text{BiGd}_x\text{Fe}_{1-x}\text{O}_3-0.4\text{PbTiO}_3$ ($x=0.05$ and 0.10) composites*”, 19th National Seminar on Ferroelectrics & Dielectrics (XIX NSFD-2016), 19-21st December 2016, Department of Physics, Maulana Azad National Institute of Technology (MANIT), Bhopal (MP)-462003, India.
- (5) **Truptimayee Sahu** and Banarji Behera, “*Dielectric and Ferroelectric Properties of Samarium Doped Bismuth Ferrite Lead Titanate Samples*”, 20th National Seminar on Ferroelectrics & Dielectrics (XX NSFD-2018), 14-16th December 2018, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur , 495009, (C.G.), India.
- (6) **Truptimayee Sahu** and Banarji Behera, “*Structural and Electrical Study of BFC-BKT Sample*”, National Seminar on Physics and Chemistry of Novel Materials (PCNM-2020), 28-29th February 2020, Department of Physics and Chemistry, School of Applied Sciences, Central University of Technology and Management, Balangir Campus, Odisha, India.

List of Conferences / Seminars / Workshop attended

- (1) National Thematic workshop on “***Recent Advances In Materials Science***” during March 8-9, 2016 at University of Burdwan, Kolkatta-713104, India.
- (2) Workshop on “***Solid and Hazardous Waste Management***” held on 23rd March, 2017, Organized by P. G. Department of Environmental Sciences, Sambalpur University, Jyoti, Vihar, Odisha-768019, India.
- (3) “***International School on Fundamental Crystallography and Workshop on Structural Phase Transitions: A Satellite School of 24th IUCr Congress, 2017***”, 30th Aug - 4th Sept 2017, organized by Department of Physics and Astronomy, National Institute of Technology Rourkela, Sundargarh, Odisha-769008, India.
- (4) “***Thematic Workshop on Advanced Probes for Materials Structure***” held during 2-3rd November 2017, Organized by Department of Physics, North Orissa University, Odisha.
- (5) National Seminar on “***Applications of Nano and Smart Materials (ANSM-2018)***” held during 23-24th February 2018 at School of Physics, Sambalpur University, Jyoti, Vihar, Odisha-768019, India.
- (6) 3-Day Workshop on “***Research Methodology***” held during 24-26th February 2018 at Human Resource and Development Centre (HRDC) and Regional Centres for Capacity Building (RCCB), Sambalpur University, Jyoti, Vihar, Odisha-768019, India.
- (7) A 3-Day “***INSPIRE Fellowship Review Meet***” held during 6-8th June 2019 at Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha-751024, India.
- (8) TEQIP III Sponsored One Week Faculty Development Programme (FDP) on “***Design and Development of Materials for Technological Applications (D-MTA)***” held during 21-26th October 2019, Organized by Department of Physics, Veer Surendra Sai University of Technology, Odisha, India.

Dr Truptimayee Sahu