

## **CURRICULUM VITAE**

Arpita Barua

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**Fields of Research Interest:** Condensed matter Physics, Perovskites

### **Educational Degrees:**

Ph.D: Jadavpur University (Ongoing)

M.Sc. Jadavpur University

B.Sc. West Bengal State University

### **Fellowship received:**

Junior Research Fellowship, UGC (2016)

### **Present Position:**

Assistant Professor, Presidency University (2018 - ...)

### **List of Publications**

1. Study on the structural, spectroscopic, and dielectric properties of 1:2 ordered  $\text{Ca}_3(\text{B}'\text{Ta}_2)\text{O}_9$  ( $\text{B}' = \text{Mg}$  and  $\text{Zn}$ ), Md. Monwar Hoque, A. Barua, Alo Dutta, Sanjoy Kumar Dey, T. P. Sinha, *Ionics* 23, 471-483 (2016).

2. Impedance spectroscopy analysis of complex perovskite  $\text{Sr}_2\text{YbSbO}_6$ , A. Barua, S. Maity, R. Mondal, and S. Kumar, AIP Conference Proceedings 1942, 110033 (2018).
3. Structural, optical and electrical characterization of  $\text{Ba}_2\text{YbTaO}_6$ , A. Barua, S. Maity, S. Kumar, A. Dutta, T.P. Sinha, Physica B 583 (2020) 412057, <https://doi.org/10.1016/j.physb.2020.412057>
4. Structural and dielectric characterization of triple perovskites  $\text{Ba}_3\text{NiTaNbO}_9$  and  $\text{Ba}_3\text{NiTaSbO}_9$ , A. Barua, S.K. Dey, S.K. Sabyasachi, S. Kumar, Journal of Alloys and Compounds 854 (2021) 157217, <https://doi.org/10.1016/j.jallcom.2020.157217>
5. Nanocomposite formation owing to the mechanical activation of  $\text{Ba}_2\text{YbSbO}_6$  perovskite, A. Barua, S. K. Dey, S. Dey and S. Kumar, Physica B 649 (2023) 414449

**School/Conference/Workshop Attended:**

1. Basic Physics to Contemporary Research, Department of Physics, Jadavpur University, Kolkata, 2015.
2. Some recent trends in research in Physics, Department of Physics, Jadavpur University, Kolkata, 2016.
3. Nanotechnology: Materials and Applications, School of Materials Science and Nanotechnology, Jadavpur University, 2016.
4. Twists and Turns in Physics Research: Special emphasis on condensed Matter and Biophysics, Department of Physics, Jadavpur University, Kolkata, 2017.
5. Semiconductor Materials and Devices, School of Materials Science and Nanotechnology, Jadavpur University, 2017.
6. Advanced Nanomaterials & Nanotechnology, Indian Institute of Technology Guwahati, 2017.

7. Biomedical Device Technology, Center of Nanotechnology, Indian Institute of Technology Guwahati, 2017.
8. Solid state physics symposium, Bhabha Atomic Research Centre, Mumbai, 2017.
9. Recent trend in Frontier Research in Physics, Department of Physics, Jadavpur University, Kolkata, 2018.
10. International Conference on Condensed Matter (ICCM), The Academy of Sciences, Chennai, Tamil Nadu, India, 2021.