



Murshidabad University



FACULTY ACADEMIC PROFILE/ CV

Full name of the faculty member: **Sourav Mazumdar**

Designation: **Assistant Professor**

Contact information: +91 9232842987/ **souravphysdnc@gmail.com**

Academic qualifications:

College/University from which the degree was obtained	Abbreviation of the degree
Krishnath College	B.Sc.
University of Kalyani	M.Sc.

Research Interests:

Theoretical Physics

Space Physics, Electronic transportation of Nanomaterials

Research guidance:

1. Guided 4 UG students for their DISSERTATION paper.

Projects: Nil

Select list of publications (Only number):

- Journals: 5
- Books/ book chapters: nil
- Conference/ seminar volumes: 6

Membership of Learned Societies:

1. Member of Condensed Matter Research Society

Invited lectures delivered: 2

Awards: Nil

Other notable activities:

1. Acted as a Judge in Science Exhibition.

3. 10 years of Research Experience.
4. 12 years of Teaching Experience at the Graduate and Post-graduate levels.

List of Journal Publication/ Conference Papers:

- Hajra, R., Chakraborty, S. K., Mazumdar, S., & Alex, S. (2012). Evolution of equatorial irregularities under varying electrodynamical conditions: a multitechnique case study from Indian longitude zone. *Journal of Geophysical Research: Space Physics*, 117(A8).
- Chatterjee, S., Chakraborty, S. K., & Mazumdar, S. (2013). Summer time scintillations near the transition zone of the Indian longitude sector. *Journal of Atmospheric and Solar-Terrestrial Physics*, 95, 102-115.
- Khan, A. A., Dutta, T., Mondal, P., Mandal, M., Chowdhury, S. K., Ahmed, Mazumdar, S., & Ghosh, N. N. (2021). Novel Coronavirus Disease (COVID-19): an extensive study on evolution, global health, drug targets and vaccines. *International Journal of Clinical Virology*, 5(2), 054-069.
- Baildya, N., Mazumdar, S., Mridha, N. K., Chattopadhyay, A. P., Khan, A. A., Dutta, T., ... & Ghosh, N. N. (2023). Comparative study of the efficiency of silicon carbide, boron nitride and carbon nanotube to deliver cancerous drug, azacitidine: A DFT study. *Computers in Biology and Medicine*, 154, 106593.

Conference Paper:

- "Summertime amplitude scintillation around the equatorial anomaly crest", S.Mazumdar S.Chatterjee, S.K.Chakraborty, K.Basu,XVII National Space Science Symposium,(sponsored by ISRO) S.V. University, Tirupati, 2012
- "A study on the variability of equatorial scintillation around the anomaly crest of the Indian zone", R.Hajra, S.Mazumdar, S.K.Chakraborty, K.Basu(Roy), XVII National Space Science Symposium(sponsored by ISRO), S.V. University, Tirupati, 2012
- Fading characteristics of multifrequency scintillations near the EIA crest; D Jana, S Banerjee, S Pal, S.K. Chakraborty and S Mazumdar. Tirupati,2016
- Spatial Variability and zonal movement of equatorial scintillations related irregularities in the perspective of SBAS operation near the EIA Crest; S Pal, D Jana, S Banerjee, S Mazumdar and S.K Chakraborty, Tirupati, 2016
- Regional variability of TEC and scintillation under the superstorm event of march 2015, D Jana, S.K Chakraborty, S Mazumdar and K.Basu (Roy) XIX National Space Science Symposium,(sponsored by ISRO) ,Vikram Sarabhai Space Centre, Thiruvananthapuram ,Kerala 2016
- CEJ events and the ionosphere near the EIA crest, S PAL, D Jana, S.K.Chakraborty S Mazumdar, XIX National Space Science Symposium,(sponsored by ISRO) ,Vikram Sarabhai Space Centre, Thiruvananthapuram ,Kerala 2016Thiruvananthapuram ,Kerala 2016