

Research Publications

In Journals/Full Length Conference Proceedings (Peer-Reviewed): 90

1. The Global Analysis of Ionospheric VTEC Variability using GPS based Measurements during Intense Geomagnetic Storm of 24th Solar Cycle" Bhupendra Malvi, Rafi Ahmad, Mahesh Parwani, Pramod Purohit Communicated to Astrophysics and Space Science in 2025. (2025)
2. Global Ionospheric Response to Intense Geomagnetic Storms: A Comparative Study Across the 23rd and 24th Solar Cycles, Bhupendra Malvi, Sharad C Tripathi, P. K. Purohit Communicated to Astrophysics and Space Science in 2025. (2025)
3. A comparative study of Ionospheric parameters at both hemispheres during the decline phase of 24th solar cycle, Pramod Purohit., Rafi Ahmad., Bhupendra Malvi and Shivangi Bhardwaj., Mediterranean Geosciences Union MedGU -23, Springer (Accepted). (2024)
4. Intense Geomagnetic Storm effect on the Ionosphere using Ionosonde observation over the 24th Solar Cycle", Bhupendra Malvi., Rafi Ahmad, and Pramod Purohit., " Regional Conference on Radio Science (URSI-RCRS) 2024, India, IEEE Xplore (Accepted). (2024)
5. ऑप्टोइलेक्ट्रॉनिक्स अनुप्रयोग के लिए कार्बन नाइट्राइड नैनोमैटेरियल्स पर एक अध्ययन परवीन अंसारी , कमल कुमार कुशवाह , हुसैन जीवाखान , पी.के. पुरोहित, पेज ३४-३९ अनुसन्धान सन्देश में प्रकशित, राष्ट्रीय हिंदी विज्ञान सम्मेलन -२०२४ में प्रस्तुत ३०-३१ जुलाई 2024 सी.एस.आई.आर.- प्रगत पदार्थ तथा प्रक्रम अनुसंधान संस्थान, भोपाल की शोध पत्रिका. (2024)
6. The Ionospheric TEC Responses to Different Solar Flayers Rafi Ahmad, Azad A. Mansoori, and P. K. Purohit Indian Journal of Natural Sciences, Vol15/Issue 83/April2024,0976-0997. (2024)
7. Study of Ionospheric behavior during the intense geomagnetic storms in 24th solar cycle over different latitudes and Longitudes Bhupendra Malvi, Sharad C Tripathi and P.K. Purohit Publishes in International Astronomical Union Proceedings Series published by Cambridge University Press, The Era of Multi-Messenger Solar Physics Proceedings IAU Symposium No. 372, 2023 doi:10.1017/S174392132300087X. (2023)
8. A comparative study of observed Ionospheric critical frequency (using ionosonde) and the IRI-2016 mode Rafi Ahmad, Mahesh Parwani, Azad A. Mansoori, Roshni Atulkar P. K. Purohit 206-209,978-1-7281-8586-6/21/\$31.00 ©2021 IEEE, International Conference on Advances in Technology, Management & Education (ICATME-2021) Proceeding's (ISBN: 978-1-7281-8586-6). (2021)
9. Study of Ionospheric TEC Variations and its synchronization with Solar Activity Indices, using GPS measurements during Solar Maxima and Minima Phases Mahesh Parwani, Rafi Ahmad, Bhupendra Malvi, P. K. Sharma, P. K. Purohit, 195-200, 978-1-7281-8586-6/21/\$31.00 ©2021 IEEE, International Conference on Advances in Technology, Management & Education (ICATME-2021) Proceeding's (ISBN: 978-1-7281-8586-6). (2021)
10. Latitudinal Study of Space Weather Influence on Ionosphere Rafi Ahmad, Bhupendra Malvi, Shivangi Bhardwaj, Azad A. Mansoori and P. K. Purohit Indian Journal of Natural Sciences, Vol.12 / Issue 69 / December / 2021, ISSN: 0976 – 0997. (2021)
11. Variability of ionospheric total electron content at low-latitude station during twin solar maxima and solar minima of the 24th solar cycle and its comparison with different

- versions of IRI models Mahesh Parwani,, Azad Ahmad Mansoori , P. K. Sharma and P. K. Purohit Current Science, Vol. 121, No. 11, 10 December 2021. (2021)
12. Analysis of Geomagnetic Storm Effects on the Ionospheric F Layer Over Northern and Southern Hemisphere Rafi Ahmad, Mahesh Parwani, Azad A. Mansoori, P. K. Purohit Indian Journal of Natural Sciences, Vol.12 / Issue 65 / April / 2021, ISSN: 0976 – 0997. (2021)
 13. Variability of ionospheric TEC at low latitude station, Hyderabad during medium solar activity Shivangi Bhardwaj , Parvaiz A. Khan , Azad A. Mansoori, Rafi Ahmad , and P. K. Purohit Russ. J. Earth. Sci., VOL. 21, ES2006, doi:10.2205/2020ES000749, 2021. (2021)
 14. Latitudinal Ionospheric Redistribution in Northern Hemisphere during Geomagnetic Storm Mahesh Parwani, Roshni Atulkar, Rafi Ahmad, P. K. Sharma and P. K. Purohit Earth Science India eISSN: 0974 – 8350 v. 12 (IV), October, 2019, pp. 191-202. (2019)
 15. Latitudinal variation of Ionospheric TEC at northern hemispheric region Mahesh Parwani, Roshni Atulkar Shweta Mukherjee and P.K. Purohit Russ. J. Earth. Sci., VOL. 19, ES1003, 1-11 doi:10.2205/2018ES000644, 2019. (2019)
 16. Investigation of Geo-effective Properties of Halo Coronal Mass Ejections Shivangi Bhardwaj, Parvaiz A. Khan, Roshni Atulkar and P. K. Purohit (Russ. J. Earth. Sci., VOL. 18, ES10039(1-6), doi:10.2205/2018ES000620, 2018. (2018)
 17. Variability of Geomagnetic Field with Interplanetary Magnetic Field at Low, Mid and High Latitudes Shivangi Bhardwaj, Parvaiz A. Khan, Roshni Atulkar and P. K. Purohit J. Sci. Res. 10(2), 133-144 (2018). (2018)
 18. Solar cycle variation and its impact on critical frequency of F layer Roshni Atulkar, Azad A. Mansoori, Parvaiz A. Khan and P. K. Purohit. Indian Journal of Radio & Space Physics Vol 47, March-June 2018, pp 20-29. (2018)
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 20. Study of Ionospheric TEC Variability over Low, Mid and High Latitudes during Solar Maximum and its comparison with IRI- Roshni Atulkar, Azad A. Mansoori, Parvaiz A. Khan, Rafi Ahmad and P. K. Purohit Astronomical and Astrophysical Transactions (AApTr), 2018 Vol .30, Issue 2, pp. 223–232, ISSN 1055-6796. (2018)
 21. Effect Of Ionospheric Irregularities On GPS Signals During Declining Phase of Solar Cycle 23 At Crest Of EIA, Bhopal Azad A. Mansoori and P. K. Purohit IOP Journal of Physics: Conf. Series 1234567890 836 (2017) 012043 doi :10.1088/1742-6596/836/1/012043. (2017)
 22. Changes in fof2 parameter in the ionosphere at mid and low latitude before Earthquake Harleen Kaur, Shivali Atre and P. K. Purohit (Indian Journal of Radio & Space Physics Vol 45, September 2016, pp 101-114 (IJRSP). (2016)
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