

List of Research Papers

S. No.	Authors	Title	Name of Journal	Volume/ISSN	Page	Year
1.	S. S. Rao, Nandita Srivastava, Monti Chakraborty, Sandeep Kumar, and D. Chakrabarty	Observations of Geomagnetic Crochet at High-Latitudes DueTo X1.5 Class Solar Flare on 3 July 2021	Space Weather	22	1-17	2024
2.	S S Rao, D. Chakrabarty, Nandita Srivastava	Solar Hysteresis Pattern and Spectral Components in TEC Time Series (GPS and TIE-GCM) of the Quadrilaterally Coupled Geomagnetic Conjugate Low-Latitude Stations	Journal of Geophysical Research, Space Physics	128(5)	1-22	2023
3.	S.S. Rao, Monti Chakraborty, A.K. Singh https://doi.org/10.1016/j.asr.2022.12.030 .	Observed (GPS) and modeled (IRI and TIE-GCM) TEC trends over southern low latitude during solar cycle-24,	Advances in Space Research,	71(8) ISSN 0273-1177,	3394 - 3407	2022
4.	Abha Singh, Vishnu S. Rathore, Sanjay Kumar, S. S. Rao, Sudesh K. Singh, and A. K. Singh	Effect of intense geomagnetic storms on low latitude TEC during the ascending phase of solar cycle 24	Journal of Astrophysics and Astronomy, Springer Link	42(99) 0250-6335 / 0973-7758	1-11	2021 IF 1.270 Q4
5.	Monti Chakraborty, A K Singh, S S Rao*	Solar flares and geomagnetic storms of September 2017: Their impacts on the TEC over 75°E longitude sector	Advances in Space Research, Elsevier	68 (4) 0273-1177 / 1879-1948	1825 - 1835	2021 IF 2.152 Q1
6.	S S Rao , Monti Chakraborty, A K Singh	A study on TEC reduction during the tail phase of the 21st June 2020 annular solar eclipse	Advances in Space Research, Elsevier	67(6) 0273-1177 / 1879-1948	1948 - 1957	2021 IF 2.152 Q1
7.	Abha Singh, S S Rao , VS Rathore, Sudesh K Singh, AK Singh	Effect of Intense Solar Flares on TEC variation at Low-latitude station Varanasi	Journal of Astrophysics and Astronomy, Springer Link	41(1) 0250-6335 / 0973-7758	1-14.	2020 IF 1.270 Q4
8.	S S Rao , Monti Chakraborty, Sanjay Kumar, A.K.Singh	Low-latitude ionospheric response from GPS, IRI and TIE-GCM TEC to Solar Cycle 24.	Astrophysics and Space Science, Springer	364(12) 0004-640X / 1572-946X	216	2019 IF 1.830
9.	S S Rao , Monti Chakraborty, R Pandey, A K Singh	foF2 variability at a southern low-latitude station and the performance of IRI-2016 model during ascending phase of solar	Advances in Space Research, Elsevier	64(11) 0273-1177 / 1879-1948	2269 - 2279	2019 IF 2.152

		cycle-24.				Q1
10.	Singh, S.B., Rao, S. S. & Singh, A.K.	Day time whistlers observed at low latitude Varanasi (L=1.078L=1.078).	Journal of Astrophysics and Astronomy, Springer Link	40 (6) 0250-6335 / 0973-7758	1-10	2019 IF 1.270 Q4
11.	S. S. Rao , Shweta Sharma and R. Pandey (corresponding author)	Study of solar flux dependency of the winter anomaly in GPS TEC	GPS Solutions, Springer	23(4) 1080-5370 / 1521-1886	1-10.	2019 IF 4.066 Q2
12.	S. S. Rao , Monti Chakraborty and R. Pandey	Ionospheric variations over Chinese EIA region using foF2 and comparison with IRI-2016 mode.	Advances in Space Research	62(1) 0273-1177 / 1879-1948	84-93	2018 IF 2.152 Q1
13.	S. S. Rao , Shweta Sharma and R. Pandey	SAMI2 model results for the quiet time low latitude ionosphere over India,	Advances in Space Research	61 (8) 0273-1177 / 1879-1948	2031 - 2039	2018 IF 2.152 Q1
14.	S. S. Rao , Shweta Sharma and R. Pandey;	Study of Night Time TEC Depletion over Indian region	Indian Journal of Radio and Space Physics	47(1-2) ISSN: 0975-105X (Online)	5-8.	2018
15.	S. S. Rao , Shweta Sharma, P. Galav and R. Pandey;	Variation of monthly mean foF ₂ and hmF ₂ over a mid-latitude station during the period 1997-2006.	Advances in Space Research	53 0273-1177 / 1879-1948	744-751	2014 IF 2.152 Q1
16.	P. Galav, Shweta Sharma, S. S. Rao , B. Veenadhari, T. Nagatsuma and R. Pandey	Study of simultaneous presence of DD and PP electric fields during the geomagnetic storm of November 7-8, 2004 and resultant TEC variation over the Indian Region.	Astrophysics and Space Science https://doi.org/10.1007/s10509-014-1792-3	350 0004-640X / 1572-946X	459-469	2014 IF 1.830
17.	Praveen Galav, Sardar Rao , Shweta Sharma, Galina Gordiyenko and R. Pandey,	Ionospheric response to the geomagnetic storm of 15 May 2005 over mid-latitudes in the day and night sector Simultaneously,	Journal of Geophysical Research, Space Physics	119, 2169-9380 / 2169-9402	5020 - 5031	2014 IF 2.81 Q2
18.	S. S. Rao, P. Galav, Shweta Sharma and R. Pandey	Low-latitude TEC variability studied from magnetically conjugate locations along 73° E longitude.	Journal of Atmospheric and Solar Terrestrial Physics	104 1364-6826 / 1879-1824	1-6	2013 IF 1.735 Q3
Conference proceedings published in IEEE Explorer Journal						
19.	S. S. Rao , R. Pandey and A. K.	Storm time PP fields effects and TADs modulations in	IEEE Explore	2020 <i>URSI Regional</i>	1-4.	2020 Q1

	Singh	TEC ISBN 978-908-25987-8-0	Conference Proceeding	<i>Conference on Radio Science (URSI-RCRS), Varanasi, 10.23919/URSI RCRS49211.20 20.9113539.</i>		
20.	S. S. Rao, S. Bharti and A. K. Singh	IRI-2016 model results during solar cycle-24 at low latitude station Dhanbad using TEC and foF2	IEEE Explore Conference Proceeding	<i>2020 URSI Regional Conference on Radio Science (URSI-RCRS), Varanasi, doi: 10.23919/URSI RCRS49211.20 20.9113573.</i>	1-4	2020 Q1
21.	S. S. Rao', Shweta Sharma' R. Pandey and A.K. Singh;	Observation of TEC Depletions during the Storm sudden commencement	IEEE Explore Conference Proceeding	<i>2019 URSI Asia-Pacific Radio Science Conference (AP-RASC) doi: 10.23919/URSI AP- RASC.2019.873 8528.</i>	1-4. ISB N:9 78- 908- 2598 7-5- 9	2019 Q1
22.	S. S. Rao and M. Chakraborty,	"Ionospheric Disturbances during X1.5 Class Solar Flare of 3 July 2021," 2022	IEEE Explore Conference Proceeding	<i>URSI Regional Conference on Radio Science (USRI-RCRS), Indore, India, 2022, pp. 1-4, doi: 10.23919/URS I- RCRS56822.2 022.10118497.</i>	1-4 ISB N:9 78- 9- 4639 - 6808 -9	2022