Research Papers statistics

Total Journal Publications	First/Corresponding author	Ph.D. Work	I Post-doc work	II Post-doc work (till date)	III Post-doc work (till date)	Other author	Conference presentations	Book chapter
22	**16**	**04**	**05**	**09**	**04**	**05**	**19**	**02**
Citations	**190**	**Google Scholar link: https://scholar.google.com/citations?user=NHheB5MAAAAJ&hl=en** **Research gate link: https://www.researchgate.net/profile/Sardar-Singh-Rao** **ORCID ID: https://orcid.org/0000-0003-3776-9342**						
h index	**9**							
i10 index	**9**							

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 cycle-24.	Advances in Space Research, **Elsevier**	64(11) **0273-1177 / 1879-1948**	2269 - 2279 .	2019 **IF 2.152 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	Ionospheric response to the geomagnetic storm of 15 May 2005 over mid-latitudes in the day and night sector	Journal of Geophysical Research, Space Physics	119, **2169-9380 / 2169-9402**	5020 - 5031	2014 **IF 2.81** Q2

	and R. Pandey,	Simultaneously,				
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. Singh	Storm time PP fields effects and TADs modulations in TEC ISBN 978-908-25987-8-0	**IEEE Explore** Conference Proceeding	*2020 URSI Regional Conference on Radio Science (URSI-RCRS)*, Varanasi, 10.23919/URSIRCRS49211.2020.9113539.	1-4.	2020 Q1
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	*2020 URSI Regional Conference on Radio Science (URSI-RCRS)*, Varanasi, doi: 10.23919/URSIRCRS49211.2020.9113573.	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	2019 URSI Asia-Pacific Radio Science Conference (AP-RASC) doi: 10.23919/URSIAP-RASC.2019.8738528.	1-4. **ISBN:**978-908-25987-5-9	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	*URSI Regional Conference on Radio Science (USRI-RCRS)*, Indore, India, 2022, pp. 1-4, doi: 10.23919/URSI-RCRS56822.2022.10118497.	1-4 **ISBN:**978-9-4639-6808-9	2022

Book/Book chapter

S. No.	Title of Chapter	Authors Name	Publisher	Year of Publication
1	Probing the upper atmosphere using GPS https://doi.org/10.1016/B978-0-12-818617-6.00011-1	S. S. Rao, and A. K. Singh	**Elsevier** Book Name: GPS and GNSS Technology in Geosciences, Pages 135-153	2021 ISSN 9780128196939
2	Study of the atmospheric and ionospheric phenomenon using GPS-based remote sensing technique https://doi.org/10.1016/B978-0-323-99262-6.00019-5.	Sanjay Kumar, S.S. Rao, Mukulika Mondal, A.K. Singh,	**Elsevier** Atmospheric Remote Sensing; Principles and Applications Pages 261-282,	2022, ISBN 9780323992626,