

Papers published by IIG from Jan-July 2023

Sr. No.	Description	Number
1.	Total Number of papers published Jan-July 2023	47
2.	Number of Papers in SCI journals	35
3.	Number of Papers in Non-SCI Journals	5
4.	Number of Papers in Conference Proceedings	4
5.	Number of Book Chapters	3
5.	Total Impact Factor of SCI Journals	120.487
6.	Average Impact Factor	2.563

Papers Published for January 2023

Sr. No.	Details
1.	C P Anil Kumara, J C K Akhilab & Ann Sherin Ab, Extensibility of External Magnetic Potential at High Latitudes – Antarctica, Indian Journal of Pure & Applied Physics Vol. 61, January 2023, pp. 19-26 DOI: 10.56042/ijpap.v61i1.68529, IF : 0.846
2.	Ajeet Kumar Maurya, Gaurish Tripathi, S.B.Singh, Rajesh Singh, A.K.Singh, Low-latitude upper atmosphere remote sensing using very low frequency (VLF) waves, In : Atmospheric Remote Sensing: Principles and Applications , 2023, Pages 283-306 [BOOK CHAPTER]
3.	Gopi Krishna Seemala, Estimation of ionospheric total electron content (TEC) from GNSS observations, In : Atmospheric Remote Sensing: Principles and Applications , 2023, Pages 63-84 [BOOK CHAPTER]
4.	Dan Dan Zou , Qing Zhao Ji, Yu Zhang, Oleg V. Kravchenko, Jyoti K. Atul , and Kostya (Ken) Ostrikov, Electric Properties of Chiral Plasma Plumes Without External Magnetic Field, IEEE Transactions on Plasma Science , vol. 50, no. 12, December 2022, IF : 1.368
5.	Sanjib Sarkar, Jyoti K Atul and Modhuchandra Laishram, Effect of dusty plasma parameters on the low frequency Hall current instability, Physica Scripta , Volume 98, Number 1, DOI 10.1088/1402-4896/acad41, IF : 3.081
6.	C. P. Anil Kumar , A. Sherin Ann , J. C. Akhila, Investigation of Joule Heating in Polar Regions – Antarctica, In : New Frontiers in Physical Science Research Vol. 6, 14 January 2023 , Page 70-80, https://doi.org/10.9734/bpi/nfpr/v6/17736D [BOOK CHAPTER]
7.	Kosuke Heki, Mala S. Bagiya, Yuki Takasaka, Slow Fault Slip Signatures in Coseismic Ionospheric Disturbances, Geophysical Research Letters , Volume49, Issue24, e2022GL101064, https://doi.org/10.1029/2022GL101064 , IF : 5.58
8.	R. K. Barad, S. Sripathi, S. L. England, Multi-Instrument Observations of the Ionospheric Response to the 26 December 2019 Solar Eclipse Over Indian and Southeast Asian Longitudes, JGR-Space Physics , Volume127, Issue9, e2022JA030330, https://doi.org/10.1029/2022JA030330 , IF : 3.11
9.	Rui Chen, Bruce T. Tsurutani, Xinliang Gao, Quanming Lu, Huayue Chen, Gurbax S. Lakhina, Rajkumar Hajra, The Structure and Microstructure of Rising-Tone Chorus With Frequencies Crossing at $f \sim 0.5 f_{ce}$, JGR-Space Physics , Volume127, Issue8, e2022JA030438, https://doi.org/10.1029/2022JA030438 , IF : 3.11
10	T.Sreeraj, S.V.Singh, G.S.Lakhina, Ion acoustic waves in lunar wake plasma, Advances in Space Research , https://doi.org/10.1016/j.asr.2023.01.034 , IF : 2.611

Papers Published for February 2023

Sr. No.	Details
1.	M S Rose, P S Sunil, Johnson Zacharia, K M Sreejith, S Sunda, V K Mini, A S Sunil & K Vijay Kumar, Early detection of heavy rainfall events associated with the monsoon in Kerala, India using GPS derived ZTD and PWV estimates: A case study. J Earth Syst Sci 132 , 23 (2023). https://doi.org/10.1007/s12040-022-02034-5 , IF : 1.912
2.	K. Krishnapriya, S Sathishkumar, S. Sridharan, Enhanced gravity wave activity in the mesosphere lower thermosphere region over Tirunelveli as a response to tropospheric convective event, Advances in Space Research , https://doi.org/10.1016/j.asr.2023.01.029 , IF : 2.611
3.	Ashish Jadhav, S Gurubaran, R Ghodpage, P T Patil, Paulo P Batista, Imprint of mesospheric quasi 2-day wave in the ground geomagnetic field variations at low latitudes, <i>JGR-Space Physics</i> , https://doi.org/10.1029/2022JA031098 , IF : 3.111
4.	Milind A Herlekar, Prafull B Kamble, Praveen B Gawali, Pramod T Hanamgond & Sainath P Aher , Quantitative assessment of shoreline changes along the tropical West Coast, Maharashtra, India: A remote sensing and GIS approach. J Earth Syst Sci 132 , 31 (2023). https://doi.org/10.1007/s12040-023-02047-8 , IF : 1.912
5.	A. Kumar, D. Chakrabarty, B.G. Fejer, G.D. Reeves, D. Rout, S. Sripathi, G. K. Seemala, S. Sunda, A. K. Yadav, A case of anomalous electric field perturbations in the equatorial ionosphere during post-sunset hours: Insights, JGR-Space Physics , https://doi.org/10.1029/2022JA030826 , IF : 3.111
6.	Harikrishnan Aravindakshan, Ivan Y. Vasko, Amar Kakad, Bharati Kakad, and Rachel Wang, Theory of ion holes in plasmas with flat-topped electron distributions, <i>Physics of Plasmas</i> 30 , 022903 (2023); https://doi.org/10.1063/5.0086613 , IF : 2.357
7.	R. Jayapal, C. P. Anilkumar, K. Unnikrishnan and Chandu Venugopal, Tsallis' Analysis of the Horizontal Component of the Earth's Magnetic Field over India during 2002, <i>Asian Journal of Research and Reviews in Physics</i> , Volume 6, Issue 4, Page 39-47, 2022; Article no.AJR2P.96286, IF : NF
8.	Bhakhara Venkata Subba Rao Prabhala, Venkata Vijaya Kumar Pachigolla, Chandrasekharam Dornadula, Vasu Deshmukh, Ajay Kishore Singh, Magnetotelluric investigations over geothermal provinces of India: an overview, <i>Turkish Journal of Earth Sciences</i> , 2023, 32. doi:10.55730/yer, IF : NA
9.	José Tacza , Tamás Bozóki, Gabriella Satori, József Bór, Anne Neska, Tero Raita, Ciaran Beggan, Mike Atkinson, Ashwini Kumar Sinha, and Rahul Rawat, Multi-station observation of periodic variations in long-term Schumann resonance records, EGU General Assembly 2023 , EGU23-657, https://doi.org/10.5194/egusphere-egu23-657

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Sr. No.	Details
1.	M. Ankita, S. Tulasi Ram, K. K. Ajith, S. Sripathi, Deep Electron Density Depletion Near Sunset Terminator on St. Patrick's Day Storm and Its Impacts on Skywave Propagation, <i>Space Weather</i> , https://doi.org/10.1029/2022SW003369 , IF : 4.288
2.	Anil Raghav, Omkar Dhamane, Zubair Shaikh, Naba Azmi, Ankita Manjrekar, Utsav Panchal, Kalpesh Ghag, Daniele Telloni, Raffaella D'Amicis, Prathmesh Tari, First Analysis of In Situ Observation of Surface Alfvén Waves in an ICME Flux Rope, <i>The Astrophysical Journal</i> , Volume 945, Number 1, DOI 10.3847/1538-4357/acb93c, IF : 5.521
3.	Jayashree Bulusu, Kusumita Arora, Shubham Singh & Anusha Edara, Simultaneous electric, magnetic and ULF anomalies associated with moderate earthquakes in Kumaun Himalaya, Natural Hazards (2023), https://doi.org/10.1007/s11069-023-05844-y , IF : 3.158
4.	Omkar Dhamane, Anil Raghav, Zubair Shaikh, Utsav Panchal, Kalpesh Ghag, Prathmesh Tari, Komal Chorgha, Ankush Bhaskar, Daniele Telloni & Wageesh Mishra, Observation of Alfvén Waves in an ICME-HSS Interaction Region, Solar Physics 298, 34 (2023). https://doi.org/10.1007/s11207-023-02127-4 , IF : 2.961
5.	O.R. Rufai, S.V. Singh, G.S. Lakhina, Nonlinear electrostatic structures and stopbands in a three-component magnetosheath plasma, Astrophysics and Space Science ,

Papers Published for April 2023

Sr. No.	Details
1.	Scott R. Miller, Joseph G. Meert, Anthony F. Pivarunas, Anup K. Sinha, Manoj K. Pandit, Paul A. Mueller, George D. Kamenov, The drift history of the Dharwar Craton and India from 2.37 Ga to 1.01 Ga with refinements for an initial Rodinia configuration, <i>Geoscience Frontiers</i> , Volume 14, Issue 4, 2023, 101581, https://doi.org/10.1016/j.gsf.2023.101581 , IF : 7.483
2.	K. Venkatesham, Ajeet K. Maurya, Rajesh Singh and Suneet Dwivedi, Extreme space weather events of solar cycle 24:X-class solar flares and their impact on the low-latitude D-region ionosphere, <i>Current Science</i> , V. 124, No. 7, 10 APRIL 2023, doi: 10.18520/cs/v124/i7/812-819 IF: 1.169

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Sr. No.	Details
1.	K. Jeeva, A. K. Sinha, Gopi K. Seemala, S. D. Pawar, A. Guha, A. K. Kamra, E. R. Williams, M. Ravichandran, The Global Representativeness of Fair-Weather Atmospheric Electricity Parameters From the Coastal Station Maitri, Antarctica, <i>JGR-Atmospheres</i> , https://doi.org/10.1029/2022JD037696 , IF : 5.217
2.	Rufai, O.R., Singh, S.V. & Lakhina, G.S. Nonlinear electrostatic structures and stopbands in a three-component magnetosheath plasma. <i>Astrophysics and Space Science</i> , 368, 35 (2023). https://doi.org/10.1007/s10509-023-04182-6 , IF : 1.909
3.	Naniwadekar, G., Gurubaran, S., Jadhav, A., Ghodpage, R., Patil, P., & Burud, D. (2023). Studies on the variability of mean winds in the mesosphere and lower thermosphere region (MLT) over Kolhapur (16.8oN, 74.2oE). <i>Journal of Geomatics</i> , 17(1), 93–100. https://doi.org/10.58825/jog.2023.17.1.78 , IF : 0.205

4.	Mohammad Rafijuddin Ali Ahamed, Akanksha Sharma, John Mohd Wani, and Ashok Priyadarshan Dimri, The representation of summer monsoon precipitation over northeast India: Assessing the performance of CORDEX-CORE model experiments, EGU General Assembly 2023, Vienna, Austria & Online, 23–28 April 2023, https://doi.org/10.5194/egusphere-egu23-607 , IF : NA
5.	Barde, Vasundhara, Nageswararao, M.M., Mohanty, U.C., and Panda, R.K., Performance of the CORDEX-SA Regional Climate Models in Simulating Summer Monsoon Rainfall and Future Projections over East India. <i>Pure Applied Geophysics</i> . 180, 1121–1142 (2023). https://doi.org/10.1007/s00024-022-03225-3 , IF : 2.641
6.	Chandan Kapil, Gopi K Seemala, Machine learning approach for detection of plasma depletions from TEC, <i>Advances in Space Research</i> , https://doi.org/10.1016/j.asr.2023.04.042 , IF : 2.611
7.	K. Krishnapriya, S Sathishkumar, S. Sridharan, Enhanced gravity wave activity in the mesosphere lower thermosphere region over Tirunelveli as a response to tropospheric convective event, <i>Advances in Space Research</i> , Volume 71, Issue 11, 1 June 2023, Pages 4710-4724, https://doi.org/10.1016/j.asr.2023.01.029 , IF : 2.611
8.	Danda Nagarjuna, Amit Kumar, G. Pavankumar, C.K. Rao, Ajay Manglik, Spatially heterogeneous lithospheric architecture of the Cambay rift basin and adjoining Aravalli-Delhi Fold Belt, western India – A synthesis of magnetotelluric results, <i>Tectonophysics</i> , https://doi.org/10.1016/j.tecto.2023.229905 , IF : 3.66
9.	Anil Raghav, Zubair Shaikh, P. Vemareddy, Ankush Bhaskar, Omkar Dhamane, Kalpesh Ghag, Prathmesh Tari, Baiju Dayanandan & Badar Mohammed Al Suti, The Possible Cause of Most Intense Geomagnetic Superstorm of the 21st Century on 20 November 2003. <i>Solar Physics</i> 298, 64 (2023). https://doi.org/10.1007/s11207-023-02157-y , IF : 2.961

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Sr. No.	Details
1.	T. Bozóki, G. Sători, E. Williams, A. Guha, Y. Liu, P. Steinbach, A. Leal, M. Herein, M. Atkinson, C. D. Beggan, E. DiGangi, A. Koloskov, A. Kulak, J. LaPierre, D.K. Milling, J. Mlynarczyk, A. Neska, A. Potapov, T. Raita, R. Rawat, R. Said, A.K. Sinha, Y. Yampolski, Day-to-day Quantification of Changes in Global Lightning Activity Based on Schumann Resonances, <i>JGR-Atmospheres</i> , https://doi.org/10.1029/2023JD038557 , IF : 5.217
2.	Gurbax Singh Lakhina, Satyavir Singh, Thekkeyil Sreeraj, Selvaraj Devanandhan, and Rajith Rubia, A Mechanism for Large-Amplitude Parallel Electrostatic Waves Observed at the Magnetopause, <i>Plasma</i> 2023, 6(2), 345-361; https://doi.org/10.3390/plasma6020024 , IF : NF
3.	R.N. Ghodpage, A. Taori, M.K. Patil, O.B. Gurav, R.P. Patil, S. Sripathi, Equatorial plasma bubble association with lower atmospheric gravity waves – Further evidences, <i>Advances in Space Research</i> , https://doi.org/10.1016/j.asr.2023.05.056 , IF: 2.611
4.	R. Rubia, S. V. Singh, G. S. Lakhina, S. Devanandhan, M. B. Dhanya, and T. Kamalam, Electrostatic Solitary Waves in the Venusian Ionosphere Pervaded by the Solar Wind: A Theoretical Perspective, <i>The Astrophysical Journal</i> , Volume 950, Number 2, DOI 10.3847/1538-4357/acd2d7, IF: 5.521
5.	Priyanka Lohani, Sandipan Mukherjee, K. Chandra Sekar, Pooja Mehta, Kireet Kumar & A. P. Dimri, Impact of monsoon season rainfall spells on the ecosystem carbon exchanges of Himalayan Chir-Pine and Banj-Oak-dominated forests: a comparative assessment, <i>Environmental Monitoring and Assessment</i> , volume 195, Article number: 827 (2023), https://doi.org/10.1007/s10661-023-11297-4 , IF : 3.307

6.	Nuralfin Anripa, A. Kumar, Pyarimohan Maharana, A. P. Dimri, Climate change over Indonesia and its impact on nutmeg production: An analysis under high-resolution CORDEX-CORE regional simulation framework, International Journal of Climatology, https://doi.org/10.1002/joc.8098 , IF : 3.651
7.	Komal Choraghe, Zubair Shaikh, Anil Raghav, Kalpesh Ghag, Omkar Dhamane, Intense (SYM-H \leq -100nT) Geomagnetic Storms Induced by Planar Magnetic Structures in Co-rotating Interaction Regions, Advances in Space Research, https://doi.org/10.1016/j.asr.2023.06.022 , IF : 2.611

Papers Published for July 2023

Sr. No.	Details
1.	D. Singh, G. Mitra, A. Guharay, D. Pallamraju, S. Gurubaran, Quasi-two-day wave amplification through interhemispheric coupling during the 2010 austral summer, Advances in Space Research , https://doi.org/10.1016/j.asr.2023.06.044 IF : 2.611
2.	G Gupta, S Ramachandran, K Tahama, Comparison between SVD-Based and Automatic Geophysical Inversion for Schlumberger VES Data: A Case Study from Konkan Coast, Maharashtra, BULLETIN OF PURE AND APPLIED SCIENCES-GEOLOGY (JAN-JUN), VOL. 42 NO. 1 (2023), https://doi.org/10.48165/bpas.2023.42F.1.8%20 , IF : NA
3.	Rajkumar Hajra, Bruce T. Tsurutani, Gurbax S. Lakhina, Quanming Lu, Aimin Du, and Lican Shan, Interplanetary Shocks between 0.3 and 1.0 au: Helios 1 and 2 Observations, The Astrophysical Journal, Volume 951, Number 1, DOI 10.3847/1538-4357/acd370, IF : 5.521
4.	K. C. Barik, S. V. Singh, and G. S. Lakhina, Kinetic Alfvén Waves Excited by Multiple Free Energy Sources in the Magnetotail, <u>The Astrophysical Journal</u> , Volume 951, Number 1, DOI 10.3847/1538-4357/acd11a, IF : 5.521
5.	Trunali Shah, B. Veenadhari, M. Pandya, M. Nosé, Energetic ion variations during substorm intervals using the Van Allen Probes data, Advances in Space Research , https://doi.org/10.1016/j.asr.2023.07.011 , IF : 2.6
6.	Bagiya, M., Heki, K. (2023): Observing the geohazards from the space, XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) (Berlin 2023). https://doi.org/10.57757/IUGG23-4243