Статьи в иностранных журналах

1. Afanasyev A.N., Van Doorsselaere T., Nakariakov V.M. Excitation of decay-less transverse oscillations of coronal loops by random motions // Astron. Astrophys. 2020. Vol.633. P. L8. - <https://doi.org/10.1051/0004-6361/201937187>.
2. Altyntsev A.T., Meshalkina N.S., Fedotova A.Ya., Myshyakov I.I. Background Microwave Emission and Microflares in Young Active Region 12635 // Astrophysical Journal. 2020.Vol.905, № 2. Art. ID 149. - <https://doi.org/10.3847/1538-4357/abc54f>
3. Anfinogentov S., Stupishin A., Mysh'yakov I.I., Fleishman G.D. Record-breaking Coronal Magnetic Field in Solar Active Region 12673 (vol 880, L29, 2019) // Astrophys. J. Letters. 2020. Vol.898, №2. P. L58. - DOI: 10.3847/2041-8213/ab93ce.
4. Berngardt O.I., Voeykov S.V., Perevalova N.P. Comparison of the TEC-based ionospheric disturbance indices AATR and WTEC // J. Atm. Sol.-Terr. Phys. 2020. Vol.203. P. 105254. - https://doi.org/10.1016/j.jastp.2020.105254.
5. Berngardt O.I. Noise level forecasts at 8–20 MHz and their use for morphological studies of ionospheric absorption variations at EKB ISTP SB RAS radar // Adv. Space Research. 2020. Vol.66, №2. P. 278-291. - <https://doi.org/10.1016/j.asr.2020.04.005>.
6. Cedrik M., Podlesnyi A.V., Kurkin V.I. The Different Scale TIDs Diagnostics Based on Chirp-signals Amplitude Measurements Data in Vertical and Near-Vertical Ionosphere Sounding // IEEE Conference Proceedings / 2020 7th All-Russian Microwave Conference (RMC) : IEEE, 2020. - P. 260-262. - DOI: 10.1109/RMC50626.2020.9312341.
7. Chelpanov A. A., Kobanov N.I. Multilevel Observations of the Oscillations in the First Active Region of the New Cycle // Sol. physics. 2020. Vol.295, №7. P. 94. - <https://doi.org/10.1007/s11207-020-01664-6>.
8. Chuvashova M.N., Mylnikova A.A., Gorbacheva A.K., Druzhinin G.V., Moskvitina N.V. The study of current situation in the development of information and telecommunication networks within the Eastern Siberia territory // Journal of Physics: Conference Series, Volume 1679, №4: II International Scientific Conference on Applied Physics, Information Technologies and Engineering 25 September – 4 October 2020, Krasnoyarsk, Russian Federation. P. 042025. -

https://doi.org/10.1088/1742-6596/1679/4/042025

1. Demidov M.L., Hanaoka Y., Sakurai T., Wang X.F. Large-Scale Solar Magnetic Fields Observed with the Infrared Spectro-Polarimeter IRmag at the National Astronomical Observatory of Japan: Comparison of Measurements Made in Different Spectral Lines and Observatories // Sol. physics. 2020. Vol.295, №4. P. 54. - https://doi.org/10.1007/s11207-020-01620-4.
2. Demyanov V.V., Sergeeva M.A., Fedorov M., Ishina T., Gatica-Acevedo V.J., Cabral-Cano E. Comparison of TEC Calculations Based on Trimble, Javad, Leica, and Septentrio GNSS Receiver Data // Remote sensing. 2020. Vol.12, №19. P. 3268. - https://doi.org/10.3390/rs12193268.
3. Edemskiy I. K. Localized total electron content enhancements in the Southern Hemisphere // Annales Geophysicae . 2020. Vol.38, №2. P. 591–601. - <https://doi.org/10.5194/angeo-38-591-2020>. – под другим институтом
4. Egorov Ya.I., Fainshtein V.G., Myshyakov I.I., Anfinogentov S., Rudenko G.V. Studying Magnetic Field Variations Accompanying the 2011 June 7 Eruptive Event, by Using Nonlinear Force-Free Field Modeling // Sol. physics. 2020. Vol.295, №4. P. 52. - https://doi.org/10.1007/s11207-020-01613-3.
5. Frick P., Sokoloff D.D., Stepanov R., Pipin V.V., Usoskin I.G. Spectral characteristic of mid-term quasi-periodicities in sunspot data // Monthly Notices Roy. Astron. Soc. 2020. Vol.491, №4. P. 5572–5578. - <https://doi.org/10.1093/mnras/stz3238>.
6. Galkin I.A., Reinisch B.W., Vesnin A.M., Bilitza D., Fridman S., Habarulema J.B., Veliz O. Assimilation of Sparse Continuous Near-Earth Weather Measurements by NECTAR Model Morphing // Space Weather. 2020. Vol.18, Issue 11. P. e2020SW002463. - DOI: 10.1029/2020SW002463.
7. Gavrilov N.M., Popov A.A., Perminov V.I., Pertsev N.N., Medvedeva I.V., Ammosov P.P., Gavrilyeva G.A., Koltovskoi I.I. Mesoscale variations of hydroxyl rotational temperature from observations at Russian sites // Proc. SPIE. 2020. Vol. 11560. # 115607W. - Doi: 10.1117/12.2574795.
8. Grechnev V.V., Kuzmenko I.V. A Geoeffective CME Caused by the Eruption of a Quiescent Prominence on 29 September 2013 // Sol. physics. 2020. Vol.295, №4. P. 55. - https://doi.org/10.1007/s11207-020-01619-x.
9. Grechnev V.V., Meshalkina N.S., Uralov A.M., Kochanov A.A., Lesovoi S.V., Myshyakov I.I., Kiselev V., Zhdanov D.A., Altyntsev A.T., Globa M.V. Twin Null-Point-Associated Major Eruptive Three-Ribbon Flares with Unusual Microwave Spectra // Sol. physics. 2020. Vol.295, №9. P. 128.
   * https://doi.org/10.1007/s11207-020-01702-3.
10. Ishin A.B., Voeykov S.V., Ishina T.V. Ionospheric effects of earthquake on November 13, 2016 in New Zealand // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608O. - <https://doi.org/10.1117/12.2575591>
11. Ivanova V.A., Podlesnyi A.V., Naumenko A.A., Poddelsky A. I. Method of semi-automatic registration of MS TID using oblique-incidence sounding data // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608H. - <https://doi.org/10.1117/12.2575521>
12. Ivanova V.A., Ponomarchuk S.N., Podlesnyi A. V. Accuracy characteristics of automatic interpretation of vertical sounding data // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608Q. - https://doi.org/10.1117/12.2575625
13. Karakhanyan A.A., Molodykh S.I. Seasonal variations of outgoing longwave radiation from satellite data // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156066. - <https://doi.org/10.1117/12.2574927>
14. Karlicky M., Kasparova J., Sych R.A. Radio, EUV, and X-Ray Observations during a Filament Rise in the 2011 June 7 Solar Flare // Astrophys. J. 2020. Vol.888, №1. P. 18. - DOI: 10.3847/1538-4357/ab5801.
15. Kashapova L.K., Kupriyanova E.G., Xu Z., Reid H.A.S., Kolotkov D. The origin of quasi-periodicities during circular ribbon flares // Astron. Astrophys. 2020. Vol.642. P. A195.

- <https://doi.org/10.1051/0004-6361/201833947>.

1. Khaikin V., Lebedev M., Shmagin V., Zinchenko I., Vdovin V., Bubnov G., Edelman V., Yakopov G., Shikhovtsev A.Yu., Marchiori G., Tordi M., Duan R., Li M. On the Eurasian SubMillimeter Telescopes Project (ESMT) // IEEE Conference Proceedings / 2020 7th All-Russian Microwave Conference (RMC): IEEE, 2020. - P. 47-51. - DOI: 10.1109/RMC50626.2020.9312341.
2. Kitchatinov L.L. Flux Tubes Forming Instability Near the Base of the Rotating Convection Zone: A Possible Explanation for the Low Latitudes of Sunspots // Astrophys. J. 2020. Vol.893, №2. P. 131. - DOI: 10.3847/1538-4357/ab7fa8.
3. Kitchatinov L.L., Potravnov I.S., Nepomnyashchikh A.A. Longitudinal drift of Tayler instability eigenmodes as a possible explanation for super-slowly rotating Ap stars // Astron. Astrophys. 2020. Vol.638. P. L9. - <https://doi.org/10.1051/0004-6361/202037862>.
4. Kolotkov D. Y., Duckenfield T. J., Nakariakov V. M. Seismological constraints on the solar coronal heating function// Astron. Astrophysics. 2020. Vol.644. P. A33. - https://doi.org/10.1051/0004-6361/202039095.
5. Kotova D., Ovodenko V.D., Yasyukevich Yu.V., Klimenko M., Ratovsky K.G., Mylnikova A.A., Andreeva E.S., Kozlovsky A., Korenkova N.A., Nesterov I., Tumanova Yu. Effciency of updating the ionospheric models using total electron content at mid- and sub-auroral latitudes // GPS Solutions. 2020. Vol.24, №1. P. 25. - https://doi.org/10.1007/s10291-019-0936-x. – в WOS занесена под 2019 годом
6. Kovadlo P.G., Lukin V. P., Shikhovtsev A.Yu. Towards improvements of the adaptive optics systems in astronomy // Proc. SPIE. 2020. Vol. 11560 /26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156014. - <https://doi.org/10.1117/12.2574992>.
7. Kovadlo P.G., Kiselev A.V., Kolobov D.Yu., Lukin V.P., Russkih I.V., Shikhovtsev A.Yu., Shikhovtsev M.Yu. The variations of the optical distortions with height at the Baykal Astrophysical Observatory site // Proc. SPIE. 2020. Vol. 11560/ 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156015. - <https://doi.org/10.1117/12.2574993>.
8. Kurkin V.I., Polekh N.M., Zolotukhina N.A. Influence of stratospheric warmings on formation of sporadic layers over the Asian region of Russia // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608A. - <https://doi.org/10.1117/12.2575438>.
9. Kurkin V.I., Medvedeva I.V., Naumenko A.A., Podlesnyi A.V., Chistyakova L.V., Poddelsky A.I., Teslyuk Yu.A. Investigation of medium-scale traveling ionospheric disturbances over the Asian region of Russia during solar cycle 24 // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608F. - <https://doi.org/10.1117/12.2575513>.
10. Kurkin V. I., Podlesnyi A.V., Cedrik M. Time variations of polarisation characteristics of HF radio signals during vertical and near-vertical incedence sounding of the ionosphere // IEEE Conference Proceedings / 2020 7th All-Russian Microwave Conference (RMC) : IEEE, 2020. - P. 253-256. - DOI: 10.1109/RMC50626.2020.9312263.
11. Kuznetsov A.A., Chrysaphi N., Kontar E.P., Motorina G. Radio Echo in the Turbulent Corona and Simulations of Solar Drift-pair Radio Bursts // Astrophys. J. 2020. Vol.898, №2. P. 94. - <https://doi.org/10.3847/1538-4357/aba04a>.
12. Laryunin O.A., Ponomarchuk S.N. Numerical modeling of additional traces on vertical incidence ionograms in their state of merging with the main trace // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156085. - https://doi.org/10.1117/12.2575063.
13. Lavygin I.A., Berngardt O.I., Lebedev V.P., Grkovich K. Identifying ground scatter and ionospheric scatter signals by using their fine structure at Ekaterinburg decametre coherent radar // IET Radar Sonar & Navigation. 2020. Vol.14, №1. P. 167-176. - DOI: 10.1049/iet-rsn.2019.0192.
14. Leonovich A.S., Kozlov D.A. Focusing of Fast Magnetosonic Waves in the Dayside Magnetosphere // J. Geophys. Res. 2020. Vol.125, №7. P. e2020JA027925. - DOI: 10.1029/2020JA027925.
15. Li B., Antolin P., Guo M.-Z., Kuznetsov A.A., Pascoe D.J., Van Doorsselaere T., Vasheghani Farahani S. Magnetohydrodynamic Fast Sausage Waves in the Solar // Space Science Reviews. 2020. Vol. 216, №8. P. 136 - DOI: 10.1007/s11214-020-00761-z
16. Li D., Li Y., Lu L., Zhang Q., Ning Z.J., Anfinogentov S. Observations of a Quasi-periodic Pulsation in the Coronal Loop and Microwave Flux during a Solar Preflare Phase // Astrophys. J. Letters. 2020. Vol.893, №1. P. L17. - DOI: 10.3847/2041-8213/ab830c.
17. Li D., Kolotkov D., Nakariakov V.M., Lu L., Ning Z.J. Quasi-periodic Pulsations of Gamma-Ray Emissions from a Solar Flare on 2017 September 6 // Astrophys. J. 2020. Vol.888, №2. P. 53. - https://doi.org/10.3847/1538-4357/ab5e86.
18. Li L., Wang X.G., Zheng W., Pozanenko A., Filippenko A.V., Qin S.M., Wang S.Q., Jiang L., Li J., Lin D.B., Liang E.W., Volnova A., Elenin L., Klunko E., Inasaridze R., Kusakin A., Lu R. GRB 140423A: A Case of Stellar Wind to Interstellar Medium Transition in the Afterglow // Astrophys. J. 2020. Vol.900, №2. P. 176. - DOI: 10.3847/1538-4357/aba757.

1. Maletckii B.M., Yasyukevich Yu.V., Vesnin A.M. Wave signatures in total electron content variations: Filtering problems // Remote sensing. 2020. Vol.12, №8. P. 1340. - DOI: 10.3390/RS12081340.
2. Martinez-Calderon C., Němec F., Katoh Y., Shiokawa K., Kletzing C., Hospodarsky G., Santolik O., Kasahara Y., Matsuda S., Kumamoto A., Tsuchiya F., Matsuoka A., Shoji M., Teramoto M., Kurita S., Miyoshi Y., Ozaki M., Nishitani N., Oinats A.V., Kurkin V.I. Spatial Extent of Quasiperiodic Emissions Simultaneously Observed by Arase and Van Allen Probes on 29 November 2018 // J. Geophys. Res. 2020. Vol.125, №9. P. e2020JA028126. - <https://doi.org/10.1029/2020JA028126>.

1. Mazaeva E.D., Pozanenko A., Volnova A., Minaev P., Belkin S., Inasaridze R., Klunko E., Kusakin A., Reva I., Rumyantsev V., Novichonok A., Moskvitin A., Paronyan G., Schmalz S., Tungalag N. Searching for optical counterparts of LIGO/virgo events in O2 run // Communications in Computer and Information Science. - 2020. - Vol.1223 CCIS: 21st Intern. Conf. on Data Analytics and Management in Data Intensive Domains, DAMDID/RCDL 2019; Kazan; Russian Federation; October 15-18, 2019 . P. 124-143. - DOI: 10.1007/978-3-030-51913-1\_9.
2. Medvedeva I., K.G. Ratovsky Studying atmospheric and ionospheric variabilities associated with sudden stratospheric warmings // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608M. - https://doi.org/10.1117/12.2575552
3. Mikhailova O.S., Mager P., Klimushkin D. Transverse resonator for ion-ion hybrid waves in dipole magnetospheric plasma // Plasma Physics and Controlled Fusion. 2020. Vol.62, №9. P. 095008. - DOI: 10.1088/1361-6587/ab9be9.
4. Mikhailova O.S., Mager P., Klimushkin D. Two modes of ion-ion hybrid waves in magnetospheric plasma // Plasma Physics and Controlled Fusion. 2020. Vol.62, №2. P. 025026. - DOI: 10.1088/1361-6587/ab5b32.
5. Minasyants G.S., Minasyants T.M., Tomozov V.M. Comparison of characteristics of photons fluxes various energies in the development of solar gamma flares // News of the National Academy of sciences of the republic of Kazakhstan. Physico - Mathematical Series. 2020. Vol.3, №331. P. 59-65. - DOI: 10.32014/2020.2518-1726.37.
6. Minasyants G. S., Minasyants T.M., Tomozov V.M. Features of magnetic structure of sunspots groups at development of sustained fluxes high energy gamma ray // News of the National Academy of sciences of the republic of Kazakhstan. Physico - Mathematical Series. 2020. Vol.331, №3. P. 66-72. - DOI: 10.32014/2020.2518-1726.38.
7. Mishin V.V., Tsegmed B., Klibanova Y., Kurikalova M.A. Burst Geomagnetic Pulsations as Indicators of Substorm Expansion Onsets During Storms // J. Geophys. Res. 2020. Vol.125, №10. P. e2020JA028521. - <https://doi.org/10.1029/2020JA028521>.
8. Mordvinov A.V., Karak B.B., Banerjee D., Chatterjee S., Golubeva E.M., Khlystova A.I. Long-term Evolution of the Sun's Magnetic Field during Cycles 15-19 Based on Their Proxies from Kodaikanal Solar Observatory // Astrophys. J. Letters. 2020. Vol.902, №1. P. L15. - DOI: 10.3847/2041-8213/abba80.
9. Myshyakov I.I., Tsvetkov T. Comparison of Kinematics of Solar Eruptive Prominences and Spatial Distribution of the Magnetic Decay Index // Astrophys. J. 2020. Vol.889, №1. P. 28. - https://doi.org/10.3847/1538-4357/ab6334. (SB RAS, Inst Solar Terr Phys, Moscow, Russia)
10. Nakariakov V.M., Kolotkov D. Magnetohydrodynamic Waves in the Solar Corona // Annual Review of Astronomy and Astrophysics. 2020. Vol.58. P. 441–481.

- https://doi.org/10.1146/annurev-astro-032320-042940.

1. Nosikov I.A., Klimenko M., Zhbankov G.A., Podlesnyi A.V., Ivanova V.A., Bessarab F.S. Generalized force approach to the identification of high and low rays in the point-to-point ionospheric ray tracing problem // IEEE Transactions on Antennas and Propagation. 2020. Vol.65, №1. Ст. 8827559. P. 455-467. - DOI: 10.1109/TAP.2019.2938817.
2. Obridko V.N., Fainshtein V.G., Zagainova Yu., Rudenko G.V. Magnetic Coupling of the Solar Hemispheres During the Solar Cycle // Sol. physics. 2020. Vol.295, №11. P. 149.

- <https://doi.org/10.1007/s11207-020-01716-x>.

1. Oinats A.V., Edemsky I.K., Rogov D.D. Updating IRI Model Using Vertical Sounding and GIM TEC Data and Its Application for the Ekaterinburg HF Radar Data Simulation // 2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science: proceedings. IEEE, 2020. - DOI: 10.23919/URSIGASS49373.2020.9232229
2. Ovodenko V.D., Klimenko M., Zakharenkova I.E., Oinats A.V., Kotova D., Nikolaev A.V., Tyutin I.V., Rogov, D., Ratovsky K.G., Chugunin D.V., Budnikov K.L., Coxon J.C., Anderson S.J., Chernyshov A.A. Spatial and Temporal Evolution of Different-Scale Ionospheric Irregularities in Central and East Siberia During the 27–28 May 2017 Geomagnetic Storm // Space Weather. 2020. Vol.18, №6. P. e2019SW002378. - DOI: 10.1029/2019SW002378.
3. Penzin M.S., Ponomarchuk S.N., Kurkin V.I. The Real-time Diagnostics of HF Radio Channel on the Base of Ionospheric Backscatter Sounding Data // 2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science: proceedings: IEEE,2020. -

DOI: 10.23919/URSIGASS49373.2020.9232353

1. Perevalova N.P., Romanova E.B., Tashchilin A.V. Detection of high-latitude ionospheric structures using GNSS // J. Atm. Sol.-Terr. Phys. 2020. Vol.207. P. 105335. - https://doi.org/10.1016/j.jastp.2020.105335.
2. Pipin V.V., Kosovichev A.G. Torsional Oscillations in Dynamo Models with Fluctuations and Potential for Helioseismic Predictions of the Solar Cycles // Astrophys. J. 2020. Vol.900, №1. P. 26. - <https://doi.org/10.3847/1538-4357/aba4ad>.
3. Podgorny I.M., Podgorny A.I., Borisenko A.V., Vashenyuk E.V., Balabin Y.V., Meshalkina N.S., Gvozdevskiy B.B. Investigation of the mechanism of solar flare and acceleration of solar cosmic rays in real conditions of the solar corona // J. Physics: Conference Series. 2020. Vol.1690: 5th Intern. Conf. on Particle Physics and Astrophysics, ICPPA 2020; Moscow, October 5-9, 2020, №1. - P. 012001. - DOI: 10.1088/1742-6596/1690/1/012001.
4. Podlesnyi A.V., Kurkin V.I., Cedrik M. Ionosond-MS ionosonde receiving antenna system // IEEE Conference Proceedings / 2020 7th All-Russian Microwave Conference (RMC) : IEEE, 2020. - P. 263-265. - DOI: 10.1109/RMC50626.2020.9312232.
5. Polyachenko E.V., Berczik P., Shukhman I.G. Simulation of the loss-cone instability in spherical systems. I. Dominating harmonic potential // Monthly Notices Roy. Astron. Soc. 2020. Vol.492, №1. P. 645–650. - <https://doi.org/10.1093/mnras/stz3544>.
6. Polyachenko E.V., Berczik P., Just A., Shukhman I.G. Simulation of the loss-cone instability in spherical systems. II. Dominating Keplerian potential // Monthly Notices Roy. Astron. Soc. 2020. Vol.492, №4. P. 4819–4824. - https://doi.org/10.1093/mnras/staa141.
7. Polyachenko E.V., Shukhman I.G. The Lynden-Bell bar formation mechanism in simple and realistic galactic models // Monthly Notices Roy. Astron. Soc. 2020. Vol.498, №3. P. 3368–3373. - https://doi.org/10.1093/mnras/staa2573.
8. Ponomarchuk S.N., Grozov V.P., Kotovich G.V., Kurkin V.I., Naumenko A.A., Oinats A.V., Podlesnyi A.V. The correction of ionosphere parameters on the base of vertical and backscatter sounding data by continuous chirp signal // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156082. - <https://doi.org/10.1117/12.2575052>.
9. Ponomarchuk S.N., Kurkin V.I., Oinats A.V. The investigation of signal shape for backscatter ionosphere sounding by continuous chirp signal // Proc. SPIE. 2020. Vol11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156084. - <https://doi.org/10.1117/12.2575059>.
10. Popov A.A., Gavrilov N.M., Perminov V.I., Pertsev N.N., Medvedeva I.V. Multi-year observations of mesoscale variances of hydroxyl nightglow near the mesopause at Tory and Zvenigorod // J. Atm. Sol.-Terr. Phys. 2020. Vol.205. P. 105311. - https://doi.org/10.1016/j.jastp.2020.105311.
11. Potapov A.S., Polyushkina T. Estimation of the ionosphere critical frequency without radio sounding // IEEE Transactions on Geoscience and Remote Sensing. 2020. Vol.58, №7. P. 5058-5065. - DOI: 10.1109/TGRS.2020.2972011.
12. Potapov A.S. Kinetic magnetic holes in the high-speed streams during solar cycle 23 // Planet. Space Sci. 2020. Vol.192, №1. P. 105066. - DOI: 10.1016/j.pss.2020.105066.
13. Potravnov I.S., Eselevich M. V. Spectroscopy and Kinematics of the High-Latitude UX Ori Type Star V1117 Her // Astrophysics. 2020. Vol. 63. P.482-490. - <https://doi.org/10.1007/s10511-020-09652-1>. - Армения
14. Ratovsky K.G., Klimenko M.V., Yasyukevich Y.V., Klimenko V.V., Vesnin A.M. Statistical analysis and interpretation of high-, mid-and low-latitude responses in regional electron content to geomagnetic storms // Atmosphere. 2020. Vol. 11, Iss. 12. Art.ID 1308. - DOI: 10.3390/atmos11121308.
15. Rubtsov A.V., Mager P., Klimushkin D. Ballooning Instability in the Magnetospheric Plasma: Two‐Dimensional Eigenmode Analysis // J. Geophys. Res. 2020. Vol.125, №1. P. e2019JA027024. - https://doi.org/10.1029/2019JA027024.
16. Rudenko G.V., Dmitrienko I.S. Validity of Nonlinear Force-Free Field Optimization Reconstruction // Sol. physics. 2020. Vol.295, №6. P. 85. - DOI: 10.1007/s11207-020-01647-7.
17. Sharykin I.N., Zimovets I.V., Myshyakov I.I. Flare Energy Release at the Magnetic Field Polarity Inversion Line during the M1.2 Solar Flare of 2015 March 15. II. Investigation of Photospheric Electric Current and Magnetic Field Variations Using HMI 135 s Vector Magnetograms // Astrophys. J. 2020. Vol.893, №2. P. 159. - https://doi.org/10.3847/1538-4357/ab84ef.
18. Shikhovtsev A.Yu., Bol'basova L.A., Kovadlo P.G., Kiselev A.V. Atmospheric parameters at the 6-m Big Telescope Alt-azimuthal site // Monthly Notices Roy. Astron. Soc. 2020. Vol.493, №1. P. 723–729. - <https://doi.org/10.1093/mnras/staa156>.
19. Shikhovtsev A.Yu., Kovadlo P. G., Kiselev A. V. The results of the measurements of the nighttime optical turbulence parameters at the Baykal Astrophysical Observatory // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156013. - https://doi.org/10.1117/12.2574991
20. Sofyin A.V., Kurkin V.I., Podlesnyi A.V. Studying the impacts of various scale TIDs on ionograms of oblique incidence and near-vertical incidence sounding of the ionosphere with continuous chirp signals // IEEE Conference Proceedings / 2020 7th All-Russian Microwave Conference (RMC) : IEEE, 2020. - P. 257-259. - DOI: 10.1109/RMC50626.2020.9312327.
21. Sokoloff D. D., Shibalova A.S., Obridko V.N., Pipin V.V. Shape of solar cycles and mid-term solar activity oscillations // Monthly Notices Roy. Astron. Soc. 2020. Vol.497, №4. P. 4376–4383. - <https://doi.org/10.1093/mnras/staa2279>.
22. Sorokin A.G., Klyuchevskii , A.V. Comment on “Hovsgol earthquake 5 December 2014, MW = 4.9: seismic and acoustic effects” by Anna A. Dobrynina, Vladimir A. Sankov, Larisa R. Tcydypova, Victor I. German, Vladimir V. Chechelnitsky, Ulzibat Munkhuu / A. G. Sorokin, A. V. Klyuchevskii // J. of Seismology. - 2020. - Vol.24. - P. 1291–1296. - https://doi.org/10.1007/s10950-020-09945-0.
23. Sych R. A., Zhugzhda Y., Yan X. Properties of Local Oscillations in the Lower Sunspot Atmosphere // Astrophys. J. 2020. Vol.888, №2. P. 84. - <https://doi.org/10.3847/1538-4357/ab5a78>.
24. Tashchilin A.V. Modeling of heat transfer in the ionosphere and plasmasphere // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 115608I. - <https://doi.org/10.1117/12.2575524>.
25. Tolstikov M.V., Oinats A.V., Medvedeva I.V., Nishitani N. Method for Estimating Neutral Wind Azimuth using 2D TID Propagation Parameters // 2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science: proceedings. IEEE, 2020. -

DOI: 10.23919/URSIGASS49373.2020.9232189

1. Uryadov V.P., Kurkin V.I., Vybornov F.I., Pershin A.V., Sheiner O.A. Results of Observations of the Ionosphere Response to a Partial Solar Eclipse on 11.08.2008 According to Data from a Network Oblique Sounding Paths in the Eurasian Region // 2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science: proceedings. IEEE, 2020. - DOI: 10.23919/URSIGASS49373.2020.9232238.
2. Van Doorsselaere T., Srivastava A.K., Antolin P., Magyar N., Vasheghani Farahani S., Tian H., Kolotkov D., Ofman L., Guo M., Arregui I.l,, De Moortel I., Pascoe, D. Coronal Heating by MHD Waves(Review) // Space Science Reviews. 2020. Vol. 216, Issue 8. P.140. - DOI: 10.1007/s11214-020-00770-y
3. Wyrzykowski L., Mróz P., Rybicki K.A., Gromadzki M., Eselevich M.V., et. al. Full orbital solution for the binary system in the northern Galactic disc microlensing event Gaia16aye // Astron. Astrophys. 2020. Vol.633. P. A98. - DOI: 10.1051/0004-6361/201935097.
4. Yang S., Pipin V.V., Sokoloff D.D., Kuzanyan K.M., Zhang H. The origin and effect of hemispheric helicity imbalance in solar dynamo // J. Plasma Physics. 2020. Vol.86, №3. P. 775860302. - DOI: https://doi.org/10.1017/S0022377820000306.
5. Yasyukevich Yu.V., Kiselev A.V., Zhivetiev I.V., Edemskiy I.K., Syrovatskii S.V., Maletckii B.M., Vesnin A.M. SIMuRG: System for Ionosphere Monitoring and Research from GNSS // GPS Solutions. 2020. Vol.24, №3. P. 69. - DOI: 10.1007/s10291-020-00983-2.
6. Yasyukevich A., Medvedeva I.V., Sivtseva V., Chernigovskaya M. A., Ammosov P., Gavrilyeva G. Strong interrelation between the short-term variability in the ionosphere, upper mesosphere, and winter polar stratosphere // Remote sensing. 2020. Vol.12, №10. P. 1588. - DOI: 10.3390/rs12101588.
7. Yasyukevich Yu.V., Vasilyev R.V., Ratovsky K.G., Setov A., Globa M.V., Syrovatskii S.V., Yasyukevich A., Kiselev A.V., Vesnin A.M. Small-scale ionospheric irregularities of auroral origin at mid-latitudes during the 22 June 2015 magnetic storm and their effect on GPS positioning // Remote sensing. 2020. Vol.12, №10. P. 1579. - DOI: 10.3390/rs12101579.
8. Yasyukevich Yu.V., Mylnikova A.A., Vesnin A.M. GNSS-based non-negative absolute ionosphere total electron content, its spatial gradients, time derivatives and differential code biases: Bounded-variable least-squares and Taylor series // Sensors. 2020. Vol.20, №19. P. 5702(1-20). - DOI: 10.3390/s20195702.
9. Yasyukevich A., Syrovatskii S.V., Yasyukevich Yu.V. Changes in the GNSS precise point positioning accuracy during a strong geomagnetic storm // E3S Web of Conferences / XI International Conference “Solar-Terrestrial Relations and Physics of Earthquake Precursors” Paratunka, Kamchatka region, Russia, September 22-25, 2020. 2020. Vol.196. P. 01001.

- <https://doi.org/10.1051/e3sconf/202019601001>.

1. Zagainova Yu., Fainshtein V.G., Gromova L.I., Gromov S.V. Source region identification and geophysical effects of stealth coronal mass ejections // J. Atm. Sol.-Terr. Phys. 2020. Vol.208. P. 105391. - DOI: 10.1016/j.jastp.2020.105391.

1. Zhukova A., Khlystova A., Abramenko V., Sokoloff D. A Catalog of Bipolar Active Regions Violating the Hale Polarity Law, 1989 – 2018 // Solar Physics. 2020. Vol.295. P. 165. - <https://doi.org/10.1007/s11207-020-01734-9>.
2. Zorkaltseva O. S., Vasilyev R. V., Saunkin A. V., Pogoreltsev A. I. The study of temperature and night green airglow at mid-latitude in MLT during winter // Proc. SPIE. 2020. Vol. 11560 / 26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics. # 1156081.

- https://doi.org/10.1117/12.2574914