Yu V Yasyukevich

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Ionospheric Disturbances and Irregularities During the 25â€“26 August 2018 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
2	MITIGATOR: GNSS-Based System for Remote Sensing of Ionospheric Absolute Total Electron Content. Universe, 2022, 8, 98.	0.9	5
3	Low-Latitude Ionospheric Responses and Coupling to the February 2014 Multiphase Geomagnetic Storm from GNSS, Magnetometers, and Space Weather Data. Atmosphere, 2022, 13, 518.	1.0	10
4	Multi-frequency phase-only PPP-RTK model applied to BeiDou data. GPS Solutions, 2022, 26, 1.	2.2	13
5	Assessing the Performance of Models for Ionospheric Correction for Single-frequency GNSS Positioning. , 2022, , .		1
6	Features of Winter Stratosphere Small-Scale Disturbance during Sudden Stratospheric Warmings. Remote Sensing, 2022, 14, 2798.	1.8	2
7	GIMLi: Global Ionospheric total electron content model based on machine learning. GPS Solutions, 2021, 25, 1.	2.2	24
8	How modernized and strengthened GPS signals enhance the system performance during solar radio bursts. GPS Solutions, 2021, 25, 1.	2.2	15
9	Space weather: risk factors for Global Navigation Satellite Systems. SolneÄno-zemnaÃ¢ Fizika, 2021, 7, 28-47.	0.2	14
10	Space weather: risk factors for Global Navigation Satellite Systems. SolneÄno-zemnaÃ¢ Fizika, 2021, 7, 30-52.	0.1	7
11	Galileo E5 AltBOC Signals: Application for Single-Frequency Total Electron Content Estimations. Remote Sensing, 2021, 13, 3973.	1.8	6
12	Experimental Estimation of Deviation Frequency within the Spectrum of Scintillations of the Carrier Phase of GNSS Signals. Remote Sensing, 2021, 13, 5017.	1.8	2
13	Efficiency of updating the ionospheric models using total electron content at mid- and sub-auroral latitudes. GPS Solutions, 2020, 24, 1.	2.2	10
14	GPS Positioning Accuracy in Different Modes with Active Forcing on the Ionosphere from the Sura High-Power HF Radiation. Radiophysics and Quantum Electronics, 2020, 62, 807-819.	0.1	5
15	Statistical Analysis of the Ionospheric Response to Geomagnetic Storms Based on the Data from Global Ionospheric Maps. Russian Journal of Physical Chemistry B, 2020, 14, 862-872.	0.2	6
16	Statistical Analysis and Interpretation of High-, Mid- and Low-Latitude Responses in Regional Electron Content to Geomagnetic Storms. Atmosphere, 2020, 11, 1308.	1.0	19
17	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, 20, 5702.	2.1	26
18	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, 12, 1579.	1.8	26

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19	SIMuRG: System for Ionosphere Monitoring and Research from GNSS. GPS Solutions, 2020, 24, 1.	2.2	30
20	Wave Signatures in Total Electron Content Variations: Filtering Problems. Remote Sensing, 2020, 12, 1340.	1.8	14
21	Modern heating facility for research into the mid-latitude ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2020, 6, 49-62.	0.2	3
22	Modern heating facility for research into the mid-latitude ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2020, 6, 61-78.	0.2	0
23	Global Navigation Satellite Systems for Ionospheric Error Correction in Radio-Engineering Systems: Challenges and Prospects. Radiophysics and Quantum Electronics, 2020, 63, 177-190.	0.1	1
24	Changes in the GNSS precise point positioning accuracy during a strong geomagnetic storm. E3S Web of Conferences, 2020, 196, 01001.	0.2	4
25	Application of BDS-GEO for studying TEC variability in equatorial ionosphere on different time scales. Advances in Space Research, 2019, 63, 257-269.	1.2	16
26	The Second-Order Derivative of GPS Carrier Phase as a Promising Means for Ionospheric Scintillation Research. Pure and Applied Geophysics, 2019, 176, 4555-4573.	0.8	11
27	Updating Ionosphere Models Using Ionosonde and GNSS Data for HF Pr opagation Simulation. , 2019, , .		0
28	Statistical Analysis of Ionospheric Global Electron Content Response to Geomagnetic Storms. , 2019, , .		2
29	Ionosphere as a Medium of Radio Wave Propagation in Different Applied Tasks. , 2019, , .		2
30	Correlation between Total and Plasmasphere Electron Content and Indexes of Solar and Geomagnetic Activity. , 2019, , .		2
31	Can we detect X/M/C-class solar flares from global navigation satellite system data?. Results in Physics, 2019, 12, 1004-1005.	2.0	3
32	Altitudinal Extent of Winter Anomaly and Its Manifestation in the Total Electron Content. Russian Journal of Physical Chemistry B, 2019, 13, 884-891.	0.2	3
33	Winter anomaly in <i>N</i>_{<i>m</i>}F₂ and TEC: when and where it can occur. Journal of Space Weather and Space Climate, 2018, 8, A45.	1.1	29
34	Tool for Creating Maps of GNSS Total Electron Content Variations. , 2018, , .		4
35	Global Electron Content in the 23rd and 24th Solar Cycles. , 2018, , .		3
36	WTEC: A new index to estimate the intensity of ionospheric disturbances. Results in Physics, 2018, 11, 1056-1057.	2.0	9

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37	Towards Reliable Ionospheric Total Electron Content Nowcasting. , 2018, , .		1
38	GNSS Scintillations in Siberia During 2014-2017. , 2018, , .		0
39	Ground-Based GNSS Data for the Ionosphere Model Correction at High-Latitudes. , 2018, , .		1
40	Random Forest, Support Vector Regression and Gradient Boosting Methods for Ionosphere Total Electron Content Nowcasting Problem at Mid-Latitudes. , 2018, , .		3
41	Correction of IRI-Plas and NeQuick Empirical Ionospheric Models at High Latitudes Using Data from the Remote Receivers of Global Navigation Satellite System Signals. Russian Journal of Physical Chemistry B, 2018, 12, 776-781.	0.2	7
42	The 6 September 2017 Xâ€Class Solar Flares and Their Impacts on the Ionosphere, GNSS, and HF Radio Wave Propagation. Space Weather, 2018, 16, 1013-1027.	1.3	96
43	SibNet â€" Siberian Global Navigation Satellite System Network: Current state. SolneÄno-zemnaÃ¢ Fizika, 2018, 4, 63-72.	0.2	19
44	Selecting the key control parameters for the ionospheric total electron content nowcasting. Sovremennye Problemy Distantsionnogo Zondirovaniya Zemli Iz Kosmosa, 2018, 15, 263-272.	0.1	0
45	SibNet â€" Siberian Global Navigation Satellite System Network: Current state. SolneÄno-zemnaÃ¢ Fizika, 2018, 4, 82-94.	0.2	2
46	Estimating the absolute total electron content from the single-frequency GPS/GLONASS data. , 2017, , .		1
47	The method to use GPS observations for statistical evaluation of the diagnostic slips level of total electron content at different latitudes. , 2017, , .		0
48	Determination of the Level of Diagnostic Slips of the Total Electron Content from GPS Observations in Different Latitudinal Regions. Moscow University Physics Bulletin (English Translation of Vestnik) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
49	Regular TEC variations in mid-latitude and polar regions. , 2017, , .		2
50	Simultaneous observation of UHV and VHF radio signal ionospheric scintillations in the magnetic zenith. , 2017, , .		0
51	Similarity and differences in morphology and mechanisms of the <i>fo</i>F2 and TEC disturbances during the geomagnetic storms on 26â€"30ÂSeptemberÂ2011. Annales Geophysicae, 2017, 35, 923-938.	0.6	23
52	GPS/GLONASS total electron content based methods for ionospheric error compensation for the radio communication systems. Vestnik of Volga State University of Technology Ser Radio Engineering and Infocommunication Systems, 2017, 34, .	0.1	4
53	Ionosphere and magnetosphere disturbance impact on operation slips of global navigation satellite systems. Sovremennye Problemy Distantsionnogo Zondirovaniya Zemli Iz Kosmosa, 2017, 14, 88-98.	0.1	3
54	Estimating the absolute total electron content based on single-frequency satellite radio navigation GPS/GLONASS data. SolneÄno-zemnaÃ¢ Fizika, 2017, 3, 97-103.	0.2	0

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55	Estimating the absolute total electron content based on single-frequency satellite radio navigation GPS/GLONASS data. SolneÄno-zemnaÃ¢ Fizika, 2017, 3, 128-137.	0.2	4
56	Ionosphere and magnetosphere disturbance impact on operation slips of Global navigation satellite systems at mid- and high-latitudes. , 2017, , .		2
57	Determining the absolute total electron content from the single-frequency GPS/GLONASS data. , 2017, , .		0
58	Ionospheric variations during typhoons of autumn 2016. , 2017, , .		0
59	Detecting the small-scale ionospheric irregularities based on GNSS data. , 2016, , .		0
60	Diurnal and longitudinal variations in the earthâ€™s ionosphere in the period of solstice in conditions of a deep minimum of solar activity. Cosmic Research, 2016, 54, 8-19.	0.2	5
61	Experimental observations of carrier phase acceleration in conditions of polar ionosphere. Journal of Communications Technology and Electronics, 2016, 61, 1086-1090.	0.2	0
62	Ionospheric TEC estimation with the signals of various geostationary navigational satellites. GPS Solutions, 2016, 20, 877-884.	2.2	28
63	Effect of magnetic storms and substorms on GPS slips at high latitudes. Cosmic Research, 2016, 54, 20-30.	0.2	27
64	Estimating the absolute total electron content, spatial gradients and time derivative from the GNSS data. , 2015, , .		1
65	Systematic changing and variations of GPS/GLONASS differential code biases. , 2015, , .		2
66	Ionospheric Effects of Geomagnetic Storms on 26â€"30 September 2011 in the Different Longitudinal Sectors and Their Impact on the HF Radio Wave Propagation. , 2015, , .		0
67	Estimating the total electron content absolute value from the GPS/GLONASS data. Results in Physics, 2015, 5, 32-33.	2.0	53
68	Variability of GPS/GLONASS differential code biases. Results in Physics, 2015, 5, 9-10.	2.0	39
69	The response of the ionosphere to the earthquake in Japan on March 11, 2011 as estimated by different GPS-based methods. Geomagnetism and Aeronomy, 2015, 55, 108-117.	0.2	13
70	Mid-latitude Summer Evening Anomaly (MSEA) in F2 layer electron density and Total Electron Content at solar minimum. Advances in Space Research, 2015, 56, 1951-1960.	1.2	17
71	Influence of GPS/GLONASS differential code biases on the determination accuracy of the absolute total electron content in the ionosphere. Geomagnetism and Aeronomy, 2015, 55, 763-769.	0.2	53
72	Investigation of SBAS L1/L5 Signals and Their Application to the Ionospheric TEC Studies. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 547-551.	1.4	16

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73	Using network technology for studying the ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2015, 1, 21-27.	0.2	1
74	Global distribution of GPS losses of phase lock and total electron content slips during the 2005 May 15 and the 2003 November 20 magnetic storms. SolneÄno-zemnaÃ¢ Fizika, 2015, 1, 58-65.	0.2	2
75	Controlling current conditions of signal propagation of navigation satellites. , 2014, , .		0
76	First experiments on studying the condition of the atmosphere and of the ionosphere in the Baikal region within nighttime during the seismic vibrator operation. , 2014, , .		1
77	Ionospheric TEC estimations using dual frequency coherent L1/L5 signals from the geostationary SBAS satellites. , 2014, , .		0
78	Geomagnetic storms, superâ€storms, and their impacts on GPSâ€based navigation systems. Space Weather, 2014, 12, 508-525.	1.3	90
79	The Method of Real-Time Control of Positioning Quality for the Transportation Applications. , 2013, , .		0
80	Ionospheric response to solar flares of C and M classes in Januaryâ€"February 2010. Cosmic Research, 2013, 51, 114-123.	0.2	12
81	A review of GPS/GLONASS studies of the ionospheric response to natural and anthropogenic processes and phenomena. Journal of Space Weather and Space Climate, 2013, 3, A27.	1.1	114
82	Ionospheric super-bubble effects on the GPS positioning relative to the orientation of signal path and geomagnetic field direction. GPS Solutions, 2012, 16, 181-189.	2.2	35
83	Deterioration in the accuracy of GPS system positioning due to the effect of ionospheric bubbles. Geomagnetism and Aeronomy, 2011, 51, 1010-1013.	0.2	1
84	The mid-latitude field-aligned disturbances and their effect on differential GPS and VLBI. Advances in Space Research, 2011, 47, 1804-1813.	1.2	9
85	First evidence of anisotropy of GPS phase slips caused by the mid-latitude field-aligned ionospheric irregularities. Advances in Space Research, 2011, 47, 1674-1680.	1.2	14
86	A statistical study of medium-scale ionospheric disturbances generated by solar terminator registered over Japan in 2008. , 2011, , .		1
87	Duration of wave disturbances generated by solar terminator in magneto-conjugate areas. , 2011, , .		5
88	Travelling wave packets generated by the solar terminator in the upper atmosphere. Atmospheric and Oceanic Optics, 2010, 23, 21-27.	0.6	3
89	Cross testing of ionosphere models IRI-2001 and IRI-2007, data from satellite altimeters (Topex/Poseidon and Jason-1) and global ionosphere maps. Advances in Space Research, 2010, 46, 990-1007.	1.2	17
90	MHD nature of ionospheric wave packets generated by the solar terminator. Geomagnetism and Aeronomy, 2010, 50, 79-95.	0.2	4

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91	10.1007/s11478-008-2008-1. , 2010, 48, 187.		0
92	The first GPS-TEC imaging of the space structure of MS wave packets excited by the solar terminator. Annales Geophysicae, 2009, 27, 1521-1525.	0.6	35
93	New field of application of the IRI modeling â€“ Determination of ionosphere transfer characteristic for radio astronomical signals. Advances in Space Research, 2009, 43, 1652-1659.	1.2	3
94	Testing of the international reference ionosphere model using the data of dual-frequency satellite altimeters â€œTopexâ€/â€œPoseidonâ€•and â€œJason-1â€• Radiophysics and Quantum Electronics, 2009, 52, 341-353.	0.1	4
95	Spatio-temporal structure of the wave packets generated by the solar terminator. Advances in Space Research, 2009, 44, 824-835.	1.2	22
96	The magnetohydrodynamic nature of ionospheric wave packets excited by the solar terminator. Doklady Earth Sciences, 2009, 429, 1354-1358.	0.2	0
97	MHD nature of nightâ€time MSTIDs excited by the solar terminator. Geophysical Research Letters, 2009, 36, .	1.5	44
98	Using GPSâ€“GLONASSâ€“GALILEO data and IRI modeling for ionospheric calibration of radio telescopes and radio interferometers. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1949-1962.	0.6	19
99	Dynamics of global electron content in 1998â€“2005 derived from global GPS data and IRI modeling. Advances in Space Research, 2008, 42, 763-769.	1.2	40
100	Adaptive radio astronomy. Doklady Physics, 2008, 53, 211-215.	0.2	1
101	Global electron content during solar cycle 23. Geomagnetism and Aeronomy, 2008, 48, 187-200.	0.2	16
102	Global electron content: a new conception to track solar activity. Annales Geophysicae, 2008, 26, 335-344.	0.6	159
103	<title>Influence of the ionosphere on radio astronomical signals according to GPS sounding and ionospheric modeling</title>. Proceedings of SPIE, 2007, , .	0.8	1
104	Ionospheric Faraday amplitude modulation of radio-astronomical signals. I. Solar radio emission. Radiophysics and Quantum Electronics, 2007, 50, 929-941.	0.1	0
105	SHARED RESEARCH FACILITIES "SOLAR-TERRESTRIAL PHYSICS AND CONTROL OF NEAR-EARTH SPACE" ("THE) Tj ETQq1 1 0.784314 rgB	0.3	0