Yu V Yasyukevich

List of Publications by Year
in descending order

105 papers	1,469 citations	331259 21 h-index	344852 36 g-index
107 all docs	107 docs citations	107 times ranked	850 citing authors

#	Article	IF	Citations
1	Global electron content: a new conception to track solar activity. Annales Geophysicae, 2008, 26, 335-344.	0.6	159
2	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
3	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
4	Geomagnetic storms, superâ€storms, and their impacts on GPSâ€based navigation systems. Space Weather, 2014, 12, 508-525.	1.3	90
5	Estimating the total electron content absolute value from the GPS/GLONASS data. Results in Physics, 2015, 5, 32-33.	2.0	53
6	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
7	MHD nature of nightâ€time MSTIDs excited by the solar terminator. Geophysical Research Letters, 2009, 36, .	1.5	44
8	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
9	Variability of GPS/GLONASS differential code biases. Results in Physics, 2015, 5, 9-10.	2.0	39
10	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
11	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
12	SIMuRG: System for Ionosphere Monitoring and Research from GNSS. GPS Solutions, 2020, 24, 1.	2.2	30
13	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
14	Ionospheric TEC estimation with the signals of various geostationary navigational satellites. GPS Solutions, 2016, 20, 877-884.	2.2	28
15	Effect of magnetic storms and substorms on GPS slips at high latitudes. Cosmic Research, 2016, 54, 20-30.	0.2	27
16	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
17	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
18	GIMLi: Global Ionospheric total electron content model based on machine learning. GPS Solutions, 2021, 25, 1.	2.2	24

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19	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
20	Spatio-temporal structure of the wave packets generated by the solar terminator. Advances in Space Research, 2009, 44, 824-835.	1.2	22
21	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
22	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
23	SibNet â€" Siberian Global Navigation Satellite System Network: Current state. SolneÄno-zemnaÃ¢ Fizika, 2018, 4, 63-72.	0.2	19
24	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
25	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
26	Global electron content during solar cycle 23. Geomagnetism and Aeronomy, 2008, 48, 187-200.	0.2	16
27	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
28	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
29	How modernized and strengthened GPS signals enhance the system performance during solar radio bursts. GPS Solutions, 2021, 25, 1.	2.2	15
30	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
31	Wave Signatures in Total Electron Content Variations: Filtering Problems. Remote Sensing, 2020, 12, 1340.	1.8	14
32	Space weather: risk factors for Global Navigation Satellite Systems. SolneÄno-zemnaÃ¢ Fizika, 2021, 7, 28-47.	0.2	14
33	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
34	Ionospheric Disturbances and Irregularities During the 25â€“26 August 2018 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
35	Multi-frequency phase-only PPP-RTK model applied to BeiDou data. GPS Solutions, 2022, 26, 1.	2.2	13
36	Ionospheric response to solar flares of C and M classes in Januaryâ€“February 2010. Cosmic Research, 2013, 51, 114-123.	0.2	12

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37	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
38	Efficiency of updating the ionospheric models using total electron content at mid- and sub-auroral latitudes. GPS Solutions, 2020, 24, 1.	2.2	10
39	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
40	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
41	WTEC: A new index to estimate the intensity of ionospheric disturbances. Results in Physics, 2018, 11, 1056-1057.	2.0	9
42	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
43	Space weather: risk factors for Global Navigation Satellite Systems. SolneÄno-zemnaÃ¢ Fizika, 2021, 7, 30-52.	0.1	7
44	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
45	Galileo E5 AltBOC Signals: Application for Single-Frequency Total Electron Content Estimations. Remote Sensing, 2021, 13, 3973.	1.8	6
46	Duration of wave disturbances generated by solar terminator in magneto-conjugate areas. , 2011, , .		5
47	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
48	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
49	MITIGATOR: GNSS-Based System for Remote Sensing of Ionospheric Absolute Total Electron Content. Universe, 2022, 8, 98.	0.9	5
50	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
51	MHD nature of ionospheric wave packets generated by the solar terminator. Geomagnetism and Aeronomy, 2010, 50, 79-95.	0.2	4
52	Tool for Creating Maps of GNSS Total Electron Content Variations. , 2018, , .		4
53	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
54	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

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55	Changes in the GNSS precise point positioning accuracy during a strong geomagnetic storm. E3S Web of Conferences, 2020, 196, 01001.	0.2	4
56	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
57	Travelling wave packets generated by the solar terminator in the upper atmosphere. Atmospheric and Oceanic Optics, 2010, 23, 21-27.	0.6	3
58	Global Electron Content in the 23rd and 24th Solar Cycles. , 2018, , .		3
59	Random Forest, Support Vector Regression and Gradient Boosting Methods for Ionosphere Total Electron Content Nowcasting Problem at Mid-Latitudes. , 2018, , .		3
60	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
61	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
62	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
63	Modern heating facility for research into the mid-latitude ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2020, 6, 49-62.	0.2	3
64	Systematic changing and variations of GPS/GLONASS differential code biases. , 2015, , .		2
65	Regular TEC variations in mid-latitude and polar regions. , 2017, , .		2
66	Statistical Analysis of Ionospheric Global Electron Content Response to Geomagnetic Storms. , 2019, , .		2
67	Ionosphere as a Medium of Radio Wave Propagation in Different Applied Tasks. , 2019, , .		2
68	Correlation between Total and Plasmasphere Electron Content and Indexes of Solar and Geomagnetic Activity. , 2019, , .		2
69	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
70	Ionosphere and magnetosphere disturbance impact on operation slips of Global navigation satellite systems at mid- and high-latitudes. , 2017, , .		2
71	SibNet â€" Siberian Global Navigation Satellite System Network: Current state. SolneÄno-zemnaÃ¢ Fizika, 2018, 4, 82-94.	0.2	2
72	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

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73	Features of Winter Stratosphere Small-Scale Disturbance during Sudden Stratospheric Warmings. Remote Sensing, 2022, 14, 2798.	1.8	2
74	<title>Influence of the ionosphere on radio astronomical signals according to GPS sounding and ionospheric modeling</title>. Proceedings of SPIE, 2007, , .	0.8	1
75	Adaptive radio astronomy. Doklady Physics, 2008, 53, 211-215.	0.2	1
76	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
77	A statistical study of medium-scale ionospheric disturbances generated by solar terminator registered over Japan in 2008. , 2011, , .		1
78	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
79	Estimating the absolute total electron content, spatial gradients and time derivative from the GNSS data. , 2015, , .		1
80	Estimating the absolute total electron content from the single-frequency GPS/GLONASS data. , 2017, , .		1
81	Towards Reliable Ionospheric Total Electron Content Nowcasting. , 2018, , .		1
82	Ground-Based GNSS Data for the Ionosphere Model Correction at High-Latitudes. , 2018, , .		1
83	Using network technology for studying the ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2015, 1, 21-27.	0.2	1
84	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
85	Assessing the Performance of Models for Ionospheric Correction for Single-frequency GNSS Positioning. , 2022, , .		1
86	Ionospheric Faraday amplitude modulation of radio-astronomical signals. I. Solar radio emission. Radiophysics and Quantum Electronics, 2007, 50, 929-941.	0.1	0
87	The magnetohydrodynamic nature of ionospheric wave packets excited by the solar terminator. Doklady Earth Sciences, 2009, 429, 1354-1358.	0.2	0
88	The Method of Real-Time Control of Positioning Quality for the Transportation Applications. , 2013, , .		0
89	Controlling current conditions of signal propagation of navigation satellites. , 2014, , .		0
90	Ionospheric TEC estimations using dual frequency coherent L1/L5 signals from the geostationary SBAS satellites. , 2014, , .		0

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91	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
92	Detecting the small-scale ionospheric irregularities based on GNSS data. , 2016, , .		0
93	Experimental observations of carrier phase acceleration in conditions of polar ionosphere. Journal of Communications Technology and Electronics, 2016, 61, 1086-1090.	0.2	0
94	The method to use GPS observations for statistical evaluation of the diagnostic slips level of total electron content at different latitudes. , 2017, , .		0
95	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 ETQq1 1 0.784314 rgBT /Overlo	0.3	0
96	Simultaneous observation of UHV and VHF radio signal ionospheric scintillations in the magnetic zenith. , 2017, , .		0
97	GNSS Scintillations in Siberia During 2014-2017. , 2018, , .		0
98	Updating Ionosphere Models Using Ionosonde and GNSS Data for HF Pr opagation Simulation. , 2019, , .		0
99	10.1007/s11478-008-2008-1. , 2010, 48, 187.		0
100	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
101	Determining the absolute total electron content from the single-frequency GPS/GLONASS data. , 2017, , .		0
102	Ionospheric variations during typhoons of autumn 2016. , 2017, , .		0
103	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
104	Modern heating facility for research into the mid-latitude ionosphere. SolneÄno-zemnaÃ¢ Fizika, 2020, 6, 61-78.	0.2	0
105	SHARED RESEARCH FACILITIES "SOLAR-TERRESTRIAL PHYSICS AND CONTROL OF NEAR-EARTH SPACE" ("THE) Tj ETQq1 1 0.784314 rgB	0.3	0