Iurii Cherniak

List of Publications by Year
in descending order

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56	1,511	257450	330143
papers	citations	24 h-index	37 g-index

60	60	60	1043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of the Stormâ€Induced Ionospheric Irregularities at Equatorial and Middle Latitudes During the 25â€“26 August 2018 Geomagnetic Storm. Space Weather, 2022, 20, .	3.7	19
2	IGS ROTI Maps: Current Status and Its Extension towards Equatorial Region and Southern Hemisphere. Sensors, 2022, 22, 3748.	3.8	4
3	The First Atmospheric Radio Occultation Profiles From a GPS Receiver in Geostationary Orbit. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
4	Accuracy assessment of the quiet-time ionospheric F2 peak parameters as derived from COSMIC-2 multi-GNSS radio occultation measurements. Journal of Space Weather and Space Climate, 2021, 11, 18.	3.3	32
5	Effects of storm-induced equatorial plasma bubbles on GPS-based kinematic positioning at equatorial and middle latitudes during the September 7â€“8, 2017, geomagnetic storm. GPS Solutions, 2021, 25, 1.	4.3	19
6	Processing and Validation of FORMOSATâ€7/COSMICâ€2 GPS Total Electron Content Observations. Radio Science, 2021, 56, e2021RS007267.	1.6	12
7	Ground-Based GNSS and Satellite Observations of Auroral Ionospheric Irregularities during Geomagnetic Disturbances in August 2018. Sensors, 2021, 21, 7749.	3.8	3
8	Climatology Characteristics of Ionospheric Irregularities Described with GNSS ROTI. Remote Sensing, 2020, 12, 2634.	4.0	16
9	Towards Cooperative Global Mapping of the Ionosphere: Fusion Feasibility for IGS and IRI with Global Climate VTEC Maps. Remote Sensing, 2020, 12, 3531.	4.0	25
10	When Plasma Streams Tie up Equatorial Plasma Irregularities with Auroral Ones. Space Weather, 2020, 18, e2019SW002375.	3.7	24
11	The Persistent Ionospheric Responses Over Japan After the Impact of the 2011 Tohoku Earthquake. Space Weather, 2020, 18, e2019SW002302.	3.7	20
12	Global View of Ionospheric Disturbance Impacts on Kinematic GPS Positioning Solutions During the 2015 St. Patrick's Day Storm. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027681.	2.4	32
13	Largeâ€Scale Ionospheric Disturbances During the 17 March 2015 Storm: A Modelâ€Data Comparative Study. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027726.	2.4	25
14	Climatology of the Equatorial Plasma Bubbles Captured by FORMOSATâ€3/COSMIC. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027680.	2.4	16
15	Variation of pulsar signal received with the PL612 as an indicator of the ionosphere dynamics. , 2020, , .		0
16	Simulation and Observations of the Polar Tongue of Ionization at Different Heights During the 2015 St. Patrick's Day Storms. Space Weather, 2019, 17, 1073-1089.	3.7	13
17	Multiâ€Instrumental Observation of Stormâ€Induced Ionospheric Plasma Bubbles at Equatorial and Middle Latitudes. Journal of Geophysical Research: Space Physics, 2019, 124, 1491-1508.	2.4	36
18	Features of Stormâ€Induced Ionospheric Irregularities From Groundâ€Based and Spaceborne GPS Observations During the 2015 St. Patrick's Day Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 10728-10748.	2.4	36

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19	Evaluation of the IRI-2016 and NeQuick electron content specification by COSMIC GPS radio occultation, ground-based GPS and Jason-2 joint altimeter/GPS observations. Advances in Space Research, 2019, 63, 1845-1859.	2.6	17
20	Ionospheric Total Electron Content Response to the Great American Solar Eclipse of 21 August 2017. Geophysical Research Letters, 2018, 45, 1199-1208.	4.0	54
21	Underutilized Spaceborne GPS Observations for Space Weather Monitoring. Space Weather, 2018, 16, 345-362.	3.7	13
22	Largeâ€Scale Traveling Ionospheric Disturbances Origin and Propagation: Case Study of the December 2015 Geomagnetic Storm. Space Weather, 2018, 16, 1377-1395.	3.7	36
23	ROTI Maps: a new IGS ionospheric product characterizing the ionospheric irregularities occurrence. GPS Solutions, 2018, 22, 1.	4.3	71
24	New advantages of the combined GPS and GLONASS observations for high-latitude ionospheric irregularities monitoring: case study of June 2015 geomagnetic storm. Earth, Planets and Space, 2017, 69, .	2.5	35
25	Observations of the Weddell Sea Anomaly in the ground-based and space-borne TEC measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 161, 105-117.	1.6	12
26	MONITOR Ionospheric Network: two case studies on scintillation and electron content variability. Annales Geophysicae, 2017, 35, 377-391.	1.6	20
27	NeQuick and IRIâ€Plas model performance on topside electron content representation: Spaceborne GPS measurements. Radio Science, 2016, 51, 752-766.	1.6	36
28	GPS and in situ Swarm observations of the equatorial plasma density irregularities in the topside ionosphere. Earth, Planets and Space, 2016, 68, .	2.5	52
29	The phase fluctuations of GPS signals at high latitudes during 7 January 2015 geomagnetic storm. , 2016, , .		1
30	Longitudinal variation in the ionosphereâ€plasmasphere system at the minimum of solar and geomagnetic activity: Investigation of temporal and latitudinal dependences. Radio Science, 2016, 51, 1864-1875.	1.6	9
31	GPS and GLONASS observations of largeâ€scale traveling ionospheric disturbances during the 2015 St. Patrick's Day storm. Journal of Geophysical Research: Space Physics, 2016, 121, 12,138.	2.4	81
32	High-latitude ionospheric irregularities: differences between ground- and space-based GPS measurements during the 2015 St. Patrickâ€™s Day storm. Earth, Planets and Space, 2016, 68, .	2.5	39
33	First observations of super plasma bubbles in Europe. Geophysical Research Letters, 2016, 43, 11,137.	4.0	74
34	Early morning irregularities detected with spaceborne GPS measurements in the topside ionosphere: A multisatellite case study. Journal of Geophysical Research: Space Physics, 2015, 120, 8817-8834.	2.4	24
35	How can GOCE and TerraSAR-X contribute to the topside ionosphere and plasmasphere research?. Space Weather, 2015, 13, 271-285.	3.7	26
36	Dependence of the high-latitude plasma irregularities on the auroral activity indices: a case study of 17 March 2015 geomagnetic storm. Earth, Planets and Space, 2015, 67, .	2.5	35

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37	Dynamics of the highâ€latitude ionospheric irregularities during the 17 March 2015â€‰St. Patrick's Day storm: Groundâ€based GPS measurements. Space Weather, 2015, 13, 585-597.	3.7	96
38	Vertical TEC representation by IRI 2012 and IRI Plas models for European midlatitudes. Advances in Space Research, 2015, 55, 2070-2076.	2.6	57
39	Coupling between parameters of Es layer and planetary waves during SSW 2008, 2010. Advances in Space Research, 2015, 56, 1886-1894.	2.6	4
40	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.	2.6	17
41	The global morphology of the plasmaspheric electron content during Northern winter 2009 based on GPS/COSMIC observation and GSM TIP model results. Advances in Space Research, 2015, 55, 2077-2085.	2.6	51
42	The plasmasphere electron content estimation on the base of radio-measurements. , 2014, , .		3
43	Approaches for modeling ionosphere irregularities based on the TEC rate index. Earth, Planets and Space, 2014, 66, .	2.5	33
44	Analysis of the ionosphere/plasmasphere electron content variability during strong geomagnetic storm. Advances in Space Research, 2014, 54, 586-594.	2.6	8
45	Cross-hemisphere comparison of mid-latitude ionospheric variability during 1996â€“2009: Juliusruh vs. Hobart. Advances in Space Research, 2014, 53, 175-189.	2.6	7
46	Observation of the ionospheric irregularities over the Northern Hemisphere: Methodology and service. Radio Science, 2014, 49, 653-662.	1.6	63
47	Validation of FORMOSAT-3/COSMIC radio occultation electron density profiles by incoherent scatter radar data. Advances in Space Research, 2014, 53, 1304-1312.	2.6	23
48	Near-real time monitoring of the TEC fluctuations over the northern hemisphere using GNSS permanent networks. Advances in Space Research, 2013, 52, 391-402.	2.6	12
49	Use of total electron content maps for analysis of spatial-temporal structures of the ionosphere. Russian Journal of Physical Chemistry B, 2013, 7, 656-662.	1.3	9
50	Analysis of electron content variations over Japan during solar minimum: Observations and modeling. Advances in Space Research, 2013, 52, 1827-1836.	2.6	16
51	Measurements of the ionosphere plasma electron density variation by the Kharkov incoherent scatter radar. Acta Geophysica, 2013, 61, 1289-1303.	2.0	8
52	Comparative study of foF2 measurements with IRI-2007 model predictions during extended solar minimum. Advances in Space Research, 2013, 51, 620-629.	2.6	32
53	Accuracy of IRI profiles of ionospheric density and temperatures derived from comparisons to Kharkov incoherent scatter radar measurements. Advances in Space Research, 2013, 51, 639-646.	2.6	7
54	High latitude TEC fluctuations and irregularity oval during geomagnetic storms. Earth, Planets and Space, 2012, 64, 521-529.	2.5	27

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55	Observation of the ionospheric storm of October 11, 2008 using FORMOSAT-3/COSMIC data. Earth, Planets and Space, 2012, 64, 505-512.	2.5	21
56	Plasmaspheric electron content derived from GPS TEC and FORMOSAT-3/COSMIC measurements: Solar minimum condition. Advances in Space Research, 2012, 50, 427-440.	2.6	49