

Nikolay Zaalov

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

207
citations

1163117

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1058476

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18
all docs

18
docs citations

18
times ranked

94
citing authors

#	ARTICLE	IF	CITATIONS
1	A ray-tracing model to account for off-great circle HF propagation over northerly paths. Radio Science, 2005, 40, n/a-n/a.	1.6	35
2	Simulation of off-great circle HF propagation effects due to the presence of patches and arcs of enhanced electron density within the polar cap ionosphere. Radio Science, 2003, 38, n/a-n/a.	1.6	31
3	Signature of polar cap inhomogeneities in vertical sounding data. Radio Science, 2013, 48, 547-563.	1.6	21
4	The generalization of Rytov's method to the case of inhomogeneous media and HF propagation and scattering in the ionosphere. Radio Science, 1992, 27, 235-244.	1.6	19
5	Near real-time input to a propagation model for nowcasting of HF communications with aircraft on polar routes. Radio Science, 2016, 51, 1048-1059.	1.6	19
6	HF propagation modeling within the polar ionosphere. Radio Science, 2012, 47, .	1.6	18
7	Time of flight and direction of arrival of HF radio signals received over a path along the midlatitude trough: Theoretical considerations. Radio Science, 2004, 39, n/a-n/a.	1.6	16
8	Modeling of high frequency radio wave absorption on oblique soundings during a solar X-ray flare. Advances in Space Research, 2015, 55, 597-604.	2.6	10
9	Observations of HF propagation on a path aligned along the mid-latitude trough. Advances in Space Research, 2009, 44, 677-684.	2.6	7
10	Multi-beam sounding ionograms in the polar cap region: Absorption induced by proton precipitations. Advances in Space Research, 2014, 54, 1743-1750.	2.6	7
11	A polar cap absorption model optimization based on the vertical ionograms analysis. Advances in Space Research, 2016, 58, 1763-1777.	2.6	7
12	The effect of the mid-latitude trough on the direction of arrival and time-of-flight of HF radio signals. Acta Geodaetica Et Geophysica Hungarica, 2002, 37, 351-363.	0.4	5
13	Effect of geomagnetic activity on the channel scattering functions of HF signals propagating in the region of the midlatitude trough and the auroral zone. Radio Science, 2007, 42, .	1.6	4
14	Simultaneous observations of transionospheric and HF ionospheric propagation within the polar cap. Radio Science, 2013, 48, 564-572.	1.6	4
15	Comparison between HF propagation and DEMETER satellite measurements within the mid-latitude trough. Advances in Space Research, 2013, 52, 781-790.	2.6	2
16	The influence of high latitude off-great circle propagation effects on HF communication systems and radiolocation. Acta Geodaetica Et Geophysica Hungarica, 2002, 37, 239-251.	0.4	1
17	High-Frequency EM Wave Field Propagation in the Disturbed Ionosphere: Review of Recent Research at St. Petersburg State University. , 2019, , .		1
18	Modeling of high frequency radio wave absorption during solar events. , 2015, , .		0