

# Dmitry Rastyagaev

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

120  
citations

1478505

6  
h-index

1474206

9  
g-index

19  
all docs

19  
docs citations

19  
times ranked

16  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave catastrophes: Types of focusing in diffraction and propagation of electromagnetic waves. Journal of Communications Technology and Electronics, 2006, 51, 1087-1125.	0.5	28
2	Mathematical simulation of propagation of frequency-modulated radio waves in ionospheric plasma. Journal of Communications Technology and Electronics, 2015, 60, 1049-1057.	0.5	25
3	Methods of simulation of electromagnetic wave propagation in the ionosphere with allowance for the distributions of the electron concentration and the Earth's magnetic field. Journal of Communications Technology and Electronics, 2014, 59, 1341-1348.	0.5	21
4	Construction of uniform asymptotic solutions of wave-type differential equations by methods of catastrophe theory. Russian Journal of Mathematical Physics, 2009, 16, 251-264.	1.5	17
5	Numerical modeling of amplitude maps for the corrected IRI-2012 model with smooth ionospheric disturbances. Journal of Communications Technology and Electronics, 2016, 61, 920-925.	0.5	10
6	Classification of unimodal and bimodal corner singularities. Functional Analysis and Its Applications, 1992, 26, 213-215.	0.4	7
7	Development of the Method for Reconstructing the Effective Frequency of Electron Collisions in the Ionospheric Plasma. Journal of Communications Technology and Electronics, 2022, 67, 117-129.	0.5	4
8	Specific features of the propagation of frequency modulated radio signals in the ionospheric plasma in the presence of local inhomogeneities. Journal of Physics: Conference Series, 2021, 1991, 012002.	0.4	3
9	The Solution of the Fundamental Problems of the Propagation and Focusing of Electromagnetic Waves in Inhomogeneous, Anisotropic, Absorbing Media on the Basis of Bicharacteristics and Wave Catastrophe Special Functions. , 2019, , .		2
10	Study of the Effect of the Equatorial Ionosphere Anomaly on the Polarizing Characteristics of HF Radio Waves. , 2021, , .		2
11	Features of the effect of the Earth's ionosphere on the field of an ordinary wave in the vicinity of the caustic. Journal of Physics: Conference Series, 2020, 1632, 012005.	0.4	1
12	Fundamental Problems of Propagation and Focusing of Electromagnetic Waves in Inhomogeneous, Anisotropic, Absorbing Media Based on Bicharacteristics and Special Functions of Wave Catastrophes. , 2019, , .		0
13	Ray Methods and Special Functions of Wave Catastrophes. , 2020, , .		0
14	Mathematical modeling of the polarization characteristics of radio waves in the Earth's equatorial ionosphere. Journal of Physics: Conference Series, 2020, 1632, 012009.	0.4	0
15	Numerical Algorithm for LFM Signals Polarization Characteristics Simulation in Experiments on Inclined Radiosounding of Ionospheric Plasma Inhomogeneities. , 2020, , .		0
16	FM pulses propagation in focal regions of catastrophe types. , 0, , .		0
17	Application of the Diffraction-Ray Theory to the Problems of Propagation of Electromagnetic Waves in the Ionospheric Plasma. Radiophysics and Quantum Electronics, 2022, 64, 533-544.	0.5	0
18	Effects of Ionospheric Inhomogeneities on Remote Sensing of the Earth by Space-Borne P-Band SAR. Radio Science, 2022, 57, .	1.6	0

#	ARTICLE	IF	CITATIONS
19	Influence of the Earth's Ionosphere on the Polarization Characteristics of Radio Waves in the Megahertz Range. , 2022, , .		0