

# Anatoli Pavlov

## List of Publications by Year in descending order

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44  
papers

583  
citations

516710

16  
h-index

610901

24  
g-index

46  
all docs

46  
docs citations

46  
times ranked

307  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of vibrationally excited nitrogen in the formation of the mid-latitude negative ionospheric storms. <i>Annales Geophysicae</i> , 1994, 12, 554-564.	1.6	51
2	The role of vibrationally excited oxygen and nitrogen in the ionosphere during the undisturbed and geomagnetic storm period of 6-12 April 1990. <i>Annales Geophysicae</i> , 1998, 16, 589-601.	1.6	45
3	Photochemistry of Ions at D-region Altitudes of the Ionosphere: A Review. <i>Surveys in Geophysics</i> , 2014, 35, 259-334.	4.6	43
4	Comparison of model electron densities and temperatures with Millstone Hill observations during undisturbed periods and the geomagnetic storms of 16 <sup>h</sup> 23 March and 6 <sup>h</sup> 12 April 1990. <i>Annales Geophysicae</i> , 1997, 15, 327-344.	1.6	39
5	Model/data comparison of F-region ionospheric perturbation over Millstone Hill during the severe geomagnetic storm of July 15-16, 2000. <i>Journal of Geophysical Research</i> , 2001, 106, 29051-29069.	3.3	37
6	Mechanisms of the electron density depletion in the SAR arc region. <i>Annales Geophysicae</i> , 1996, 14, 211-221.	1.6	29
7	Ion Chemistry of the Ionosphere at E- and F-Region Altitudes: A Review. <i>Surveys in Geophysics</i> , 2012, 33, 1133-1172.	4.6	26
8	Cooling rate of thermal electrons by electron impact excitation of fine structure levels of atomic oxygen. <i>Annales Geophysicae</i> , 1999, 17, 919-924.	1.6	25
9	Subauroral red arcs as a conjugate phenomenon: comparison of OV1-10 satellite data with numerical calculations. <i>Annales Geophysicae</i> , 1997, 15, 984-998.	1.6	24
10	New method in computer simulations of electron and ion densities and temperatures in the plasmasphere and low-latitude ionosphere. <i>Annales Geophysicae</i> , 2003, 21, 1601-1628.	1.6	24
11	Vibrationally excited N <sub>2</sub> and O <sub>2</sub> in the upper atmosphere: A review. <i>Geomagnetism and Aeronomy</i> , 2011, 51, 143-169.	0.8	23
12	E and F-region ionospheric perturbations in the low-latitude ionosphere during the geomagnetic storm of 25-27 August 1987. <i>Annales Geophysicae</i> , 2004, 22, 3479-3501.	1.6	20
13	Anomalous variations of $f_oF_2$ over the Argentine Islands: a statistical study. <i>Annales Geophysicae</i> , 2009, 27, 1363-1375.	1.6	18
14	Variations in statistical parameters of the NmF <sub>2</sub> winter anomaly with latitude and solar activity. <i>Geomagnetism and Aeronomy</i> , 2012, 52, 335-343.	0.8	17
15	Comparison of the measured and modeled electron densities, and electron and ion temperatures in the low-latitude ionosphere during 19-21 March 1988. <i>Annales Geophysicae</i> , 2004, 22, 2747-2763.	1.6	16
16	Anomalous variations in the structure of the ionospheric F <sub>2</sub> region at geomagnetic midlatitudes of the Southern and Northern hemispheres in going from summer to winter conditions at high solar activity. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 75-88.	0.8	16
17	The role of the zonal plasma drift in the low-latitude ionosphere at high solar activity near equinox from a new three-dimensional theoretical model. <i>Annales Geophysicae</i> , 2006, 24, 2553-2572.	1.6	15
18	G condition in the F <sub>2</sub> region peak electron density: a statistical study. <i>Annales Geophysicae</i> , 2002, 20, 523-537.	1.6	15

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19	Solar zenith angle dependencies of F1-layer, &lt;i>N <sub>m</sub> &lt;/i> and F2 negative disturbance, and G-condition occurrence probabilities. <i>Annales Geophysicae</i> , 2002, 20, 1821-1836.	1.6	11
20	A modeling study of ionospheric F2-region storm effects at low geomagnetic latitudes during 17-22 March 1990. <i>Annales Geophysicae</i> , 2006, 24, 915-940.	1.6	11
21	Effect of solar radiation refraction on the zenith angle and times of the sunrise and sunset in the atmosphere. <i>Geomagnetism and Aeronomy</i> , 2010, 50, 219-224.	0.8	10
22	Comparison of modeled electron densities and electron and ion temperatures with Arecibo observations during undisturbed and geomagnetic storm periods of 7-11 September 2005. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	10
23	Diffusion and Thermodiffusion of Atmospheric Neutral Gases: A Review. <i>Surveys in Geophysics</i> , 2019, 40, 247-276.	4.6	8
24	Influence of Atmospheric Solar Radiation Absorption on Photodestruction of Ions at D-Region Altitudes of the Ionosphere. <i>Surveys in Geophysics</i> , 2016, 37, 811-844.	4.6	6
25	Effect of zonal E $\vec{A}$ – B plasma drift on electron density in the low-latitude ionospheric F region at a solar activity maximum near vernal equinox. <i>Geomagnetism and Aeronomy</i> , 2007, 47, 621-635.	0.8	5
26	Anomalous variations in the ionospheric F 2-layer structure at geomagnetic midlatitudes of the Southern and Northern hemispheres at the transition from summer to winter conditions under low solar activity. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 327-336.	0.8	5
27	Influence of the plasma zonal E $\vec{A}$ – B drift on the electron concentration in the low-latitude ionospheric F region at the minimum of solar activity near the spring equinox. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 479-490.	0.8	4
28	Statistical study of anomalous nighttime maximums in the NmF 2 diurnal variations in the region of appearance of the equatorial anomaly northern crest. <i>Geomagnetism and Aeronomy</i> , 2009, 49, 219-226.	0.8	4
29	Dependences of the NmF2 midlatitude statistical characteristics on the month of a year under geomagnetically quiet conditions near noon at low solar activity. <i>Geomagnetism and Aeronomy</i> , 2015, 55, 487-492.	0.8	4
30	Comparison of electron concentrations in the ionospheric E-layer maximum in spring conditions obtained by calculations and Moscow ionosonde measurements. <i>Geomagnetism and Aeronomy</i> , 2015, 55, 235-245.	0.8	4
31	Thermal Conductivity of the Multicomponent Neutral Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,476.	2.4	3
32	Dependences of statistical characteristics of NmE on the month of the year at middle and low latitudes under daytime geomagnetically quiet conditions at low solar activity. <i>Geomagnetism and Aeronomy</i> , 2016, 56, 401-406.	0.8	2
33	Formation mechanisms of the midlatitudinal NmF2 semiannual anomaly under daytime quiet geomagnetic conditions at low solar activity. <i>Geomagnetism and Aeronomy</i> , 2017, 57, 406-413.	0.8	2
34	Diurnal Variations in the Statistical Characteristics of the Variability of the Midlatitude NmF2 during Quiet Geomagnetic Conditions at Low Solar Activity. <i>Geomagnetism and Aeronomy</i> , 2019, 59, 593-605.	0.8	2
35	Statistical Characteristics of the Mid-latitude NmF2 Day-to-Day Variability During Geomagnetically Quiet Conditions at Low Solar Activity Obtained from the Dourbes and Juliusruh Ionosonde Observations. <i>Pure and Applied Geophysics</i> , 2021, 178, 3887-3907.	1.9	2
36	The role of vibrationally excited oxygen and nitrogen in the D and E regions of the ionosphere. <i>Annales Geophysicae</i> , 1994, 12, 1085.	1.6	2

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37	Effect of the zonal E $\tilde{A}$ – B plasma drift on the electron number density in the low-latitude ionospheric F region at high solar activity near the December solstice. <i>Geomagnetism and Aeronomy</i> , 2013, 53, 188-197.	0.8	1
38	Viscosity Coefficient of the Multicomponent Neutral Atmosphere. <i>Geomagnetism and Aeronomy</i> , 2018, 58, 98-105.	0.8	1
39	Effect of the Solar Activity Variations on the NmF2 Variability under Geomagnetically Quiet Conditions According to Ionosonde Data over Moscow. <i>Geomagnetism and Aeronomy</i> , 2022, 62, 227-236.	0.8	1
40	Formation Mechanisms of the Spring–Autumn Asymmetry of the Midlatitudinal NmF2 under Daytime Quiet Geomagnetic Conditions at Low Solar Activity. <i>Geomagnetism and Aeronomy</i> , 2018, 58, 383-393.	0.8	0
41	Thermodiffusion and Diffusion Correction Factors of Neutral Gases in the Earth's Atmosphere. <i>Surveys in Geophysics</i> , 2021, 42, 989-997.	4.6	0
42	10.1007/s11478-008-1009-4. , 2010, 48, 75.		0
43	Long-term monthly statistics of the mid-latitude ionospheric E-layer peak electron density in the Northern geographic hemisphere during geomagnetically quiet and steadily low solar activity conditions. <i>Annals of Geophysics</i> , 2017, 60, .	1.0	0
44	Comparison of the Intensity of the Nighttime Scattered Atmospheric Radiation in the Lyman-Alpha Line from OGO-4 Satellite Measurements and Calculations. <i>Geomagnetism and Aeronomy</i> , 2020, 60, 489-494.	0.8	0