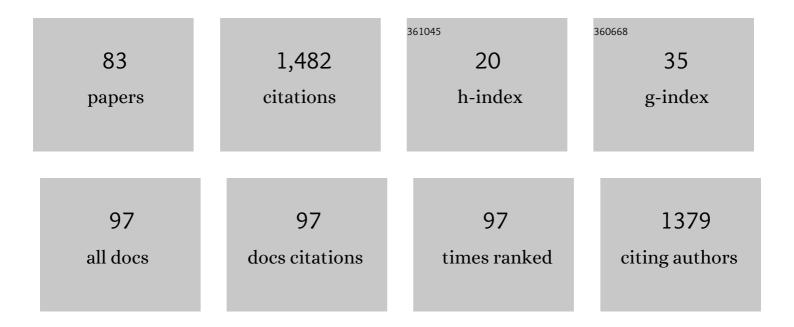
Nickolay Ivchenko

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	First results of electric field and density observations by Cluster EFW based on initial months of operation. Annales Geophysicae, 2001, 19, 1219-1240.	0.6	273
2	Temporal evolution of the electric field accelerating electrons away from the auroral ionosphere. Nature, 2001, 414, 724-727.	13.7	132
3	Europa's far ultraviolet oxygen aurora from a comprehensive set of HST observations. Journal of Geophysical Research: Space Physics, 2016, 121, 2143-2170.	0.8	54
4	Miniaturized digital fluxgate magnetometer for small spacecraft applications. Measurement Science and Technology, 2008, 19, 015202.	1.4	44
5	Electron signatures and Alfvén waves. Journal of Geophysical Research, 2002, 107, SMP 15-1.	3.3	41
6	Morphology and dynamics of aurora at fine scale: first results from the ASK instrument. Annales Geophysicae, 2008, 26, 1041-1048.	0.6	37
7	Quasiperiodic oscillations observed at the edge of an auroral arc by auroral turbulence 2. Geophysical Research Letters, 1999, 26, 3365-3368.	1.5	36
8	Multiple-point electron measurements in a nightside auroral arc: Auroral turbulence II particle observations. Geophysical Research Letters, 1999, 26, 3361-3364.	1.5	34
9	Simultaneous imaging of aurora on small scale in OI (777.4 nm) and N ₂ 1P to estimate energy and flux of precipitation. Annales Geophysicae, 2009, 27, 2881-2891.	0.6	31
10	Dynamic rayed aurora and enhanced ion-acoustic radar echoes. Annales Geophysicae, 2005, 23, 3-11.	0.6	30
11	Statistics of Joule heating in the auroral zone and polar cap using Astrid-2 satellite Poynting flux. Annales Geophysicae, 2004, 22, 4133-4142.	0.6	27
12	DETECTION OF A HYDROGEN CORONA IN HST LyÎ \pm IMAGES OF EUROPA IN TRANSIT OF JUPITER. Astronomical Journal, 2017, 153, 67.	1.9	27
13	Temporal and spatial evolution of discrete auroral arcs as seen by Cluster. Annales Geophysicae, 2005, 23, 2531-2557.	0.6	25
14	Lower-thermosphere–ionosphere (LTI) quantities: current status of measuring techniques and models. Annales Geophysicae, 2021, 39, 189-237.	0.6	25
15	Inhomogeneous transverse electric fields and wave generation in the auroral region: A statistical study. Journal of Geophysical Research, 2001, 106, 10803-10816.	3.3	24
16	Energy and flux variations across thin auroral arcs. Annales Geophysicae, 2011, 29, 1699-1712.	0.6	24
17	A sublimated water atmosphere on Ganymede detected from Hubble Space Telescope observations. Nature Astronomy, 2021, 5, 1043-1051.	4.2	24
18	Using multispectral optical observations to identify the acceleration mechanism responsible for flickering aurora. Journal of Geophysical Research, 2010, 115, .	3.3	23

Νιςκοίας Ινςμένκο

#	Article	IF	CITATIONS
19	On the equatorward phase propagation of high-m ULF pulsations observed by radars. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1677-1680.	0.6	20
20	F-region electron heating by X-mode radiowaves in underdense conditions. Annales Geophysicae, 2009, 27, 2585-2592.	0.6	20
21	Deployment of Bistable Self-Deployable Tape Spring Booms Using a Gravity Offloading System. Journal of Aerospace Engineering, 2017, 30, .	0.8	20
22	New constraints on Ganymede's hydrogen corona: Analysis of Lyman- α emissions observed by HST/STIS between 1998 and 2014. Planetary and Space Science, 2017, 148, 35-44.	0.9	20
23	Multispectral observations of auroral rays and curls. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	19
24	Optical Flow Analysis of the Aurora Borealis. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 159-163.	1.4	19
25	First direct optical observations of plasma flows using afterglow of in discrete aurora. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 228-238.	0.6	19
26	Rise and fall of electron temperatures: Ohmic heating of ionospheric electrons from underdense HF radio wave pumping. Journal of Geophysical Research, 2010, 115, .	3.3	19
27	Constraints on an exosphere at Ceres from Hubble Space Telescope observations. Geophysical Research Letters, 2016, 43, 2465-2472.	1.5	19
28	A statistical study of the magnetosphere boundary crossings by the Geotail satellite. Geophysical Research Letters, 2000, 27, 2881-2884.	1.5	17
29	Smallâ€scale structures in flickering aurora. Geophysical Research Letters, 2008, 35, .	1.5	16
30	An attempt to detect transient changes in lo's SO <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1100" altimg="si51.svg"> <mml:msub> <mml:mrow /> <mml:mrow> <mml:mn>2 </mml:mn></mml:mrow> </mml:mrow </mml:msub> and NaCl atmosphere.</mml:math 	1.1	16
31	Icarus, 2020, 350, 113925. Modelling of N ₂ 1P emission rates in aurora using various cross sections for excitation. Annales Geophysicae, 2009, 27, 2545-2553.	0.6	15
32	Electron Energization by Alfv?n Waves: Freja and Sounding Rocket Observations. Physica Scripta, 2000, T84, 151.	1.2	14
33	Simultaneous observations of small multi-scale structures in an auroral arc. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 633-637.	0.6	14
34	Digital fluxgate magnetometer: design notes. Measurement Science and Technology, 2015, 26, 125901.	1.4	14
35	Detection of a hydrogen corona at Callisto. Journal of Geophysical Research E: Planets, 2017, 122, 1046-1055.	1.5	14
36	Compound auroral micromorphology: ground-based high-speed imaging. Earth, Planets and Space, 2015, 67, 23.	0.9	13

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#	Article	IF	CITATIONS
37	Patch Size Evolution During Pulsating Aurora. Journal of Geophysical Research: Space Physics, 2019, 124, 4725-4738.	0.8	13
38	The MATS satellite mission – gravity wave studies by Mesospheric Airglow/Aerosol Tomography and Spectroscopy. Atmospheric Chemistry and Physics, 2020, 20, 431-455.	1.9	13
39	Observation of low frequency electromagnetic activity at 1000 km altitude. Annales Geophysicae, 2001, 19, 643-648.	0.6	12
40	Non-Maxwellian electron energy probability functions in the plume of a SPT-100 Hall thruster. Plasma Sources Science and Technology, 2018, 27, 015006.	1.3	12
41	Disturbance of plasma environment in the vicinity of the Astrid-2 microsatellite. Annales Geophysicae, 2001, 19, 655-666.	0.6	12
42	Coexisting structures from high―and lowâ€energy precipitation in fineâ€scale aurora. Geophysical Research Letters, 2015, 42, 1290-1296.	1.5	11
43	Rotational temperature of N ₂ ⁺ (0,2) ions from spectrographic measurements used to infer the energy of precipitation in different auroral forms and compared with radar measurements. Annales Geophysicae, 2008, 26, 853-866.	0.6	10
44	Enhanced EISCAT UHF backscatter during high-energy auroral electron precipitation. Annales Geophysicae, 2013, 31, 1681-1687.	0.6	10
45	Electrodynamics and energy characteristics of aurora at high resolution by optical methods. Journal of Geophysical Research: Space Physics, 2016, 121, 5966-5974.	0.8	10
46	Variations in energy, flux, and brightness of pulsating aurora measured at high time resolution. Annales Geophysicae, 2017, 35, 493-503.	0.6	10
47	An Analysis of the Statistics and Systematics of Limb Anomaly Detections in HST/STIS Transit Images of Europa. Astronomical Journal, 2020, 159, 155.	1.9	10
48	Multipoint measurements of large DC electric fields and shears in the auroral zone. Geophysical Research Letters, 1999, 26, 3369-3372.	1.5	9
49	Using spectral characteristics to interpret auroral imaging in the 731.9 nm O ⁺ line. Annales Geophysicae, 2008, 26, 1905-1917.	0.6	8
50	EMMA - the Electric and Magnetic Monitor of the Aurora on Astrid-2. Annales Geophysicae, 2004, 22, 115-123.	0.6	7
51	Resonance scattering by auroral N ₂ ⁺ : steady state theory and observations from Svalbard. Annales Geophysicae, 2009, 27, 3465-3478.	0.6	7
52	Dynamics and characteristics of black aurora as observed by high-resolution ground-based imagers and radar. International Journal of Remote Sensing, 2011, 32, 2973-2985.	1.3	7
53	Monoenergetic highâ€energy electron precipitation in thin auroral filaments. Geophysical Research Letters, 2012, 39, .	1.5	7
54	On the relation of Langmuir turbulence radar signatures to auroral conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 8499-8511.	0.8	7

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#	Article	IF	CITATIONS
55	An optical study of multiple NEIAL events driven by low energy electron precipitation. Annales Geophysicae, 2008, 26, 2435-2447.	0.6	6
56	RELATIVE BRIGHTNESS OF THE O ⁺ (² <i>D</i> - ² <i>P</i>) DOUBLETS IN LOW-ENERGY AURORAE. Astrophysical Journal, 2014, 797, 64.	1.6	6
57	Collisionless electron cooling in a plasma thruster plume: experimental validation of a kinetic model. Plasma Sources Science and Technology, 2020, 29, 035029.	1.3	6
58	Observation of O ⁺ (⁴ P- ⁴ D ⁰) lines in electron aurora over Svalbard. Annales Geophysicae, 2004, 22, 2805-2817.	0.6	5
59	Observation of O+ 4P-4D0lines in proton aurora over Svalbard. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	5
60	Phase calibration of the EISCAT Svalbard Radar interferometer using optical satellite signatures. Annales Geophysicae, 2006, 24, 2419-2427.	0.6	5
61	SELMA mission: How do airless bodies interact with space environment? The Moon as an accessible laboratory. Planetary and Space Science, 2018, 156, 23-40.	0.9	5
62	Multiâ€Point Measurements of the Plasma Properties Inside an Aurora From the SPIDER Sounding Rocket. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029204.	0.8	5
63	Auroral ion acoustic wave enhancement observed with a radar interferometer system. Annales Geophysicae, 2015, 33, 837-844.	0.6	4
64	"Current singularities―observed on Astrid-2. Advances in Space Research, 2002, 30, 1779-1782.	1.2	3
65	Separating and quantifying ionospheric responses to proton and electron precipitation over Svalbard. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
66	Radar interferometer calibration of the EISCAT Svalbard Radar and a additional receiver station. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 105-106, 287-292.	0.6	3
67	Technical Note: A novel rocket-based in situ collection technique for mesospheric and stratospheric aerosol particles. Atmospheric Measurement Techniques, 2013, 6, 777-785.	1.2	3
68	Relation of anomalous FÂregion radar echoes in the high-latitude ionosphere to auroral precipitation. Annales Geophysicae, 2017, 35, 475-479.	0.6	3
69	Horizontal electric fields from flow of auroral O ⁺ (² P) ions at sub-second temporal resolution. Annales Geophysicae, 2020, 38, 845-859.	0.6	3
70	Fine-scale dynamics of fragmented aurora-like emissions. Annales Geophysicae, 2021, 39, 975-989.	0.6	3
71	Magnetospheric response to the solar wind as indicated by the cross-polar potential drop and the low-latitude asymmetric disturbance field. Annales Geophysicae, 2001, 19, 649-653.	0.6	2
72	Plasma line observations from the EISCAT Svalbard Radar during the International Polar Year. Annales Geophysicae, 2017, 35, 1143-1149.	0.6	2

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#	Article	IF	CITATIONS
73	Effect of second harmonic in pulse-width-modulation-based DAC for feedback of digital fluxgate magnetometer. Measurement Science and Technology, 2018, 29, 045008.	1.4	2
74	Photocurrent modelling and experimental confirmation for meteoric smoke particle detectors on board atmospheric sounding rockets. Atmospheric Measurement Techniques, 2018, 11, 5299-5314.	1.2	2
75	Variability of Io's poynting flux: A parameter study using MHD simulations. Planetary and Space Science, 2020, 192, 105058.	0.9	2
76	Characterisation of the analogue read-out chain for the CCDs onboard the mesospheric airglow/aerosol tomography and spectroscopy (MATS). , 2018, , .		2
77	Generation mechanisms of the ELF-ULF waves related to the flux transfer events. Advances in Space Research, 1997, 19, 1933-1937.	1.2	1
78	Observations of HF-induced instability in the auroral E region. Annales Geophysicae, 2013, 31, 1103-1108.	0.6	1
79	Small Explorer for Advanced Missions (SEAM), a CCSDS compatible CubeSat supported on a global commercial ground network. , 2016, , .		1
80	Post-flight trajectory reconstruction of suborbital free-flyers using GPS raw data. Journal of Geodetic Science, 2017, 7, .	0.5	1
81	On the relationship of energetic particle precipitation and mesopause temperature. Annales Geophysicae, 2021, 39, 795-809.	0.6	1
82	Inertial Alfveln waves in the ionosphere: theoretical considerations and experimental constraints. AIP Conference Proceedings, 2000, , .	0.3	0
83	Project "Development of the Methodology of Experiment and Technical Support for Studies of the Flow Cyclotron Maser in the Earth's Magnetosphere by Creating an Artificial Ionization Cloud From a Geophysical Rocket― Optica Pura Y Aplicada, 2012, 45, 45-49.	0.0	0