

V V Kalegaev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3934885/publications.pdf>

Version: 2024-02-01

90
papers

1,584
citations

331538

21
h-index

315616

38
g-index

90
all docs

90
docs citations

90
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding space weather to shield society: A global road map for 2015–2025 commissioned by COSPAR and ILWS. <i>Advances in Space Research</i> , 2015, 55, 2745-2807.	1.2	256
2	Magnetic storms and magnetotail currents. <i>Journal of Geophysical Research</i> , 1996, 101, 7737-7747.	3.3	180
3	Field-aligned currents in Saturn's southern nightside magnetosphere: Subcorotation and planetary period oscillation components. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9847-9899.	0.8	87
4	Field-aligned currents in Saturn's northern nightside magnetosphere: Evidence for interhemispheric current flow associated with planetary period oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7552-7584.	0.8	70
5	A simple axisymmetric model of magnetosphere-ionosphere coupling currents in Jupiter's polar ionosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
6	Dynamic model of the magnetosphere: Case study for January 9-12, 1997. <i>Journal of Geophysical Research</i> , 2001, 106, 25683-25693.	3.3	55
7	Magnetic Storms in October 2003. <i>Cosmic Research</i> , 2004, 42, 489-535.	0.2	53
8	A global magnetic model of Saturn's magnetosphere and a comparison with Cassini SOI data. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	44
9	Relation between the ring current and the tail current during magnetic storms. <i>Annales Geophysicae</i> , 2005, 23, 523-533.	0.6	41
10	Investigations of the space environment aboard the Universitetsky-Tat'yana and Universitetsky-Tat'yana-2 microsatellites. <i>Solar System Research</i> , 2011, 45, 3-29.	0.3	38
11	Modelling of the electromagnetic field in the interplanetary space and in the Earth's magnetosphere. <i>Space Science Reviews</i> , 2003, 107, 7-26.	3.7	37
12	Structure of the magnetospheric magnetic field during magnetic storms. <i>Journal of Geophysical Research</i> , 1999, 104, 28351-28360.	3.3	36
13	Comparison of Earth's magnetospheric magnetic field models in the context of cosmic ray physics. <i>Acta Geophysica</i> , 2009, 57, 75-87.	1.0	36
14	In Situ Data and Effect Correlation During September 2017 Solar Particle Event. <i>Space Weather</i> , 2019, 17, 99-117.	1.3	35
15	First results of investigating the space environment onboard the Universitetskii-Tatyana satellite. <i>Cosmic Research</i> , 2007, 45, 273-286.	0.2	30
16	A model of Jupiter's magnetospheric magnetic field with variable magnetopause flaring. <i>Planetary and Space Science</i> , 2005, 53, 863-872.	0.9	26
17	Saturn's dayside ultraviolet auroras: Evidence for morphological dependence on the direction of the upstream interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1994-2008.	0.8	25
18	Field-Aligned Currents in Saturn's Nightside Magnetosphere: Subcorotation and Planetary Period Oscillation Components During Northern Spring. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3602-3636.	0.8	24

#	ARTICLE	IF	CITATIONS
19	Dependence of the open-closed field line boundary in Saturn's ionosphere on both the IMF and solar wind dynamic pressure: comparison with the UV auroral oval observed by the HST. <i>Annales Geophysicae</i> , 2008, 26, 159-166.	0.6	23
20	Electric fields and field-aligned current generation in the magnetosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 4041-4051.	3.3	22
21	Field-aligned currents in Saturn's magnetosphere: Local time dependence of southern summer currents in the dawn sector between midnight and noon. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7785-7804.	0.8	21
22	"Lomonosov" Satellite Space Observatory to Study Extreme Phenomena in Space. <i>Space Science Reviews</i> , 2017, 212, 1705-1738.	3.7	21
23	Magnetospheric mapping of the dayside UV auroral oval at Saturn using simultaneous HST images, Cassini IMF data, and a global magnetic field model. <i>Annales Geophysicae</i> , 2011, 29, 1233-1246.	0.6	20
24	Definition of Saturn's magnetospheric model parameters for the Pioneer 11 flyby. <i>Annales Geophysicae</i> , 2006, 24, 1145-1156.	0.6	19
25	Magnetospheric magnetic field modelling for the 2011 and 2012 HST Saturn aurora campaigns – implications for auroral source regions. <i>Annales Geophysicae</i> , 2014, 32, 689-704.	0.6	18
26	Magnetic field and plasma flow structure near the magnetopause. <i>Journal of Geophysical Research</i> , 1995, 100, 19267.	3.3	17
27	Experiment on the Vernov satellite: Transient energetic processes in the Earth's atmosphere and magnetosphere. Part I: Description of the experiment. <i>Cosmic Research</i> , 2016, 54, 261-269.	0.2	15
28	IMF dependence of the open-closed field line boundary in Saturn's ionosphere, and its relation to the UV auroral oval observed by the Hubble Space Telescope. <i>Annales Geophysicae</i> , 2007, 25, 1215-1226.	0.6	15
29	Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A29.	1.1	13
30	Transpolar aurora: time evolution, associated convection patterns, and a possible cause. <i>Annales Geophysicae</i> , 2005, 23, 1917-1930.	0.6	12
31	IMF dependence of Saturn's auroras: modelling study of HST and Cassini data from 12–15 February 2008. <i>Annales Geophysicae</i> , 2010, 28, 1559-1570.	0.6	12
32	Experiment on the Vernov satellite: Transient energetic processes in the Earth's atmosphere and magnetosphere. Part II. First results. <i>Cosmic Research</i> , 2016, 54, 343-350.	0.2	12
33	Dynamics of the magnetosphere during geomagnetic storms on January 21–22, 2005 and December 14–15, 2006. <i>Cosmic Research</i> , 2015, 53, 98-110.	0.2	11
34	Operational radiation monitoring in near-Earth space based on the system of multiple small satellites. <i>Cosmic Research</i> , 2015, 53, 423-429.	0.2	10
35	Optimization of measurements of the Earth's radiation belt particle fluxes. <i>Cosmic Research</i> , 2017, 55, 79-87.	0.2	10
36	Long-Term Dropout of Relativistic Electrons in the Outer Radiation Belt During Two Sequential Geomagnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028098.	0.8	10

#	ARTICLE	IF	CITATIONS
37	Simultaneous polar aurorae and modelled convection patterns in both hemispheres. <i>Advances in Space Research</i> , 2006, 38, 1685-1693.	1.2	9
38	Ring current asymmetry during a magnetic storm. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 747-758.	0.2	9
39	Experiment on the measurement of charged particle flows with ELECTRON-M-PESCA onboard the CORONAS-PHOTON solar research satellite. <i>Solar System Research</i> , 2011, 45, 206-211.	0.3	7
40	Scientific Objectives of Electron Losses and Fields INvestigation Onboard Lomonosov Satellite. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	7
41	Multi-Satellite Operative Monitoring of Near-Earth Radiation within the Universat-SOCRAT Project. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta)</i> , Tj ETQq1 1 0.784314 rgt /Overlock 10	0.784314	7
42	Modelling of the Electromagnetic Field in the Interplanetary Space and in the Earth's Magnetosphere. , 2003, , 7-26.		7
43	Dynamics of magnetospheric current systems during magnetic storms of different intensity. <i>Geomagnetism and Aeronomy</i> , 2006, 46, 570-579.	0.2	6
44	Penetration of solar cosmic rays into the Earth's magnetosphere on January 28, 2012. <i>Cosmic Research</i> , 2013, 51, 319-325.	0.2	6
45	Magnetopause mapping to the ionosphere for northward IMF. <i>Annales Geophysicae</i> , 2007, 25, 2615-2625.	0.6	5
46	Dynamics of the Earth's outer radiation belt in November 2009 based on the experimental data from the CORONAS-Photon and Meteor-M No. 1 satellites. <i>Moscow University Physics Bulletin (English)</i> Tj ETQq0 0 0 rgt /Overlock 10 Tf 50		5
47	Electron flux variations at altitudes of 600-800 km in the second half of 2014. preliminary results of an experiment using RELEC equipment onboard the satellite VERNOV. <i>Cosmic Research</i> , 2016, 54, 67-75.	0.2	5
48	Addressing Gaps in Space Weather Operations and Understanding With Small Satellites. <i>Space Weather</i> , 2021, 19, e2020SW002566.	1.3	5
49	Magnetic field influence on aurorae and the Jovian plasma disk radial structure. <i>Annales Geophysicae</i> , 2006, 24, 973-988.	0.6	4
50	Modeling the Dst variation during magnetic storms. <i>Geomagnetism and Aeronomy</i> , 2006, 46, 563-569.	0.2	4
51	Modeling the partial ring current effect in a disturbed magnetosphere. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 737-746.	0.2	4
52	Optimization of Saturn paraboloid magnetospheric field model parameters using Cassini equatorial magnetic field data. <i>Annales Geophysicae</i> , 2016, 34, 641-656.	0.6	4
53	Near-Earth Radiation Environment for Extreme Solar and Geomagnetic Conditions. , 2018, , 349-372.		4
54	AMICal Sat and ATISE: two space missions for auroral monitoring. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A44.	1.1	4

#	ARTICLE	IF	CITATIONS
55	Magnetospheric access for solar protons during the January 2005 SEP event. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A55.	1.1	4
56	Monitoring of Natural and Technogenic Space Hazards: Results of the Lomonosov Mission and Universat-SOCRAT Project. <i>Cosmic Research</i> , 2018, 56, 488-497.	0.2	4
57	Empirical model of the high-latitude boundary of the Earth's outer radiation belt at altitudes of up to 1000 km. <i>Cosmic Research</i> , 2018, 56, 32-37.	0.2	4
58	Medium-Term Prediction of Relativistic Electron Fluxes in a Geostationary Orbit Using Machine Learning Methods Based on Observations of Solar Coronal Holes. <i>Geomagnetism and Aeronomy</i> , 2020, 60, 279-288.	0.2	4
59	Space Weather Effects from Observations by Moscow University Cubesat Constellation. <i>Universe</i> , 2022, 8, 282.	0.9	4
60	Magnetic interconnection of Saturn's polar regions: comparison of modelling results with Hubble Space Telescope UV auroral images. <i>Annales Geophysicae</i> , 2013, 31, 1447-1458.	0.6	3
61	Dynamics of fluxes of protons with energies 30–80 keV during geomagnetic storms on January 21–22, 2005, and December 14–15, 2006, according to data from low-orbit satellites. <i>Cosmic Research</i> , 2014, 52, 411-420.	0.2	3
62	The response of the high-latitude ionosphere to the solar-wind pressure jump with a southward IMF on January 10, 1997. <i>Geomagnetism and Aeronomy</i> , 2014, 54, 203-206.	0.2	3
63	Precipitation of subrelativistic-energy electrons near the polar boundary of the Earth radiation belt according to the data of measurements on the Vernov and Lomonosov satellites. <i>Cosmic Research</i> , 2017, 55, 446-456.	0.2	3
64	Radiation environment at the end of active functioning of Vernov satellite. <i>Cosmic Research</i> , 2017, 55, 464-468.	0.2	3
65	Magnetic Field Variations and Dynamics of the Outer Electron Radiation Belt of the Earth's Magnetosphere in February 2014. <i>Geomagnetism and Aeronomy</i> , 2020, 60, 7-19.	0.2	3
66	Dynamics of Relativistic Electron Fluxes of the Outer Radiation Belt during Geomagnetic Disturbances of Different Intensity. <i>Geomagnetism and Aeronomy</i> , 2021, 61, 331-340.	0.2	3
67	Spatial and Temporal Characteristics of Subrelativistic Electron Fluxes in the Near-Earth Space from the Vernov Satellite Data. <i>Geomagnetism and Aeronomy</i> , 2020, 60, 151-161.	0.2	3
68	A First Experience of Space Radiation Monitoring in the Multi-Satellite Experiment of Moscow University in the Framework of the Universat-SOCRAT Project. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2020, 75, 676-683.	0.1	3
69	Space-Time Structure of Energetic Electron Precipitations according to the Data of Balloon Observations and Polar Satellite Measurements on February 1–6, 2015. <i>Cosmic Research</i> , 2021, 59, 446-455.	0.2	3
70	Dynamic geomagnetic field models. <i>Geomagnetism and Aeronomy</i> , 2011, 51, 855-865.	0.2	2
71	Dynamics of the ring current and ion fluxes at low altitudes during the February 27–28, 2014 magnetic storm. <i>Geomagnetism and Aeronomy</i> , 2015, 55, 715-722.	0.2	2
72	Dynamics of the Magnetospheric Magnetic Field during Strong Magnetic Storms in 2015 According to Measurements on Board Van Allen Probes and Modeling Results. <i>Cosmic Research</i> , 2018, 56, 442-452.	0.2	2

#	ARTICLE	IF	CITATIONS
73	The Use of Coupling Functions in the Forecasting of the Dst-Index Amplitude with Adaptive Methods. <i>Geomagnetism and Aeronomy</i> , 2021, 61, 138-147.	0.2	2
74	Some Features of Solar Proton Events on March 7, 2011, and on February 20, 2014. <i>Cosmic Research</i> , 2021, 59, 250-258.	0.2	2
75	Case study of September 24–26, 1998 magnetic storm. <i>Advances in Space Research</i> , 2005, 36, 2428-2433.	1.2	1
76	The influence of solar flares on the near-Earth space radiation environment in March and April 2013: Possibilities of operational monitoring. <i>Moscow University Physics Bulletin (English Translation of) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50</i>	0.1	0
77	Polar cap response to the solar wind density jump under constant southward IMF. <i>Geomagnetism and Aeronomy</i> , 2014, 54, 702-711.	0.2	1
78	The formation of a transient current system near the inner edge of the magnetospheric tail current. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta,) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50</i>	0.1	0
79	Dynamics of the ring current–magnetotail currents relationships during geomagnetic storms of different intensity. <i>Geomagnetism and Aeronomy</i> , 2017, 57, 529-534.	0.2	1
80	Open and partially closed models of the solar wind interaction with outer planet magnetospheres: the case of Saturn. <i>Annales Geophysicae</i> , 2017, 35, 1293-1308.	0.6	1
81	Magnetodisc modelling in Jupiter's magnetosphere using Juno magnetic field data and the paraboloid magnetic field model. <i>Annales Geophysicae</i> , 2019, 37, 101-109.	0.6	1
82	Earth's Magnetotail as the Reservoir of Accelerated Single- and Multicharged Oxygen Ions Replenishing Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028217.	0.8	1
83	Lomonosov GRB Catalogue: The First Experience of Prompt Emission Multi-Wavelength Observations. <i>Universe</i> , 2021, 7, 375.	0.9	1
84	Magnetosphere Environment from Solar System Planets/Moons to Exoplanets. <i>Astrophysics and Space Science Library</i> , 2015, , 189-212.	1.0	1
85	Title is missing!. <i>Cosmic Research</i> , 2003, 41, 359-370.	0.2	0
86	Low-latitude variations in the geomagnetic field caused by solar wind disturbances. <i>Geomagnetism and Aeronomy</i> , 2014, 54, 445-448.	0.2	0
87	Magnetospheric dynamics during the storm of February 14, 2009. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2016, 71, 292-298.	0.1	0
88	Observation of Cosmic Gamma Ray Bursts in the Experiments Onboard Lomonosov and Vernov Satellites. <i>Physics of Particles and Nuclei</i> , 2018, 49, 652-656.	0.2	0
89	Quality Assessment and Verification of the Empirical Model of the High-latitude Boundary of the Earth's Outer Radiation Belt Based on Meteor-M Satellite Data. <i>Russian Meteorology and Hydrology</i> , 2021, 46, 179-186.	0.2	0
90	Solar Energetic Particles and Trapped Radiation in the Near-Earth Space: Space Experiments and Modelling. <i>Physics of Atomic Nuclei</i> , 2021, 84, 1105-1113.	0.1	0