

O V Agapitov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

3,268
citations

35
h-index

48
g-index

137
ext. papers

3,879
ext. citations

3.8
avg. IF

5.47
L-index

#	Paper	IF	Citations
127	Flux Rope Merging and the Structure of Switchbacks in the Solar Wind. <i>Astrophysical Journal</i> , 2022 , 925, 213	4.7	0
126	Langmuir-Slow Extraordinary Mode Magnetic Signature Observations with Parker Solar Probe. <i>Astrophysical Journal</i> , 2022 , 927, 95	4.7	1
125	Switchbacks as signatures of magnetic flux ropes generated by interchange reconnection in the corona. <i>Astronomy and Astrophysics</i> , 2021 , 650, A2	5.1	23
124	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021 , 650, A9	5.1	9
123	Switchbacks: statistical properties and deviations from Alfvénicity. <i>Astronomy and Astrophysics</i> , 2021 , 650, A3	5.1	10
122	Direct evidence for magnetic reconnection at the boundaries of magnetic switchbacks with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021 , 650, A5	5.1	9
121	Dynamic Mechanisms Associated With High-Energy Electron Flux Dropout in the Earth's Outer Radiation Belt Under the Influence of a Coronal Mass Ejection Sheath Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126,	2.6	2
120	Evidence of Small Scale Plasma Irregularity Effects on Whistler Mode Chorus Propagation. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092850	4.9	8
119	Chorus and Hiss Scales in the Inner Magnetosphere: Statistics From High-Resolution Filter Bank (FBK) Van Allen Proves Multi-Point Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028998	2.6	0
118	High-Energy Electron Flux Enhancement Pattern in the Outer Radiation Belt in Response to the Alfvénic Fluctuations Within High-Speed Solar Wind Stream: A Statistical Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029363	2.6	4
117	A Survey of Dense Low Energy Ions in Earth's Outer Magnetosphere: Relation to Solar Wind Dynamic Pressure, IMF, and Magnetospheric Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029208	2.6	0
116	A Census of Magnetospheric Electrons From Several eV to 30 keV. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027577	2.6	9
115	Switchbacks in the Solar Magnetic Field: Their Evolution, Their Content, and Their Effects on the Plasma. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 68	8	50
114	Electron Microburst Size Distribution Derived With AeroCube-6. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027651	2.6	10
113	Lifetimes of Relativistic Electrons as Determined From Plasmaspheric Hiss Scattering Rates Statistics: Effects of $\beta_e/\bar{\beta}_e$ and Wave Frequency Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088052	4.9	5
112	Shock Drift Acceleration of Ions in an Interplanetary Shock Observed by MMS. <i>Astrophysical Journal Letters</i> , 2020 , 891, L26	7.9	2
111	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at 35.7 R _? Radii. <i>Astrophysical Journal Letters</i> , 2020 , 891, L20	7.9	28

110	Localized Heating of the Martian Topside Ionosphere Through the Combined Effects of Magnetic Pumping by Large-Scale Magnetosonic Waves and Pitch Angle Diffusion by Whistler Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086408	4.9	5
109	Model of the propagation of very low-frequency beams in the Earth's ionosphere waveguide: principles of the tensor impedance method in multi-layered gyrotronic waveguides. <i>Annales Geophysicae</i> , 2020 , 38, 207-230	2	4
108	Time Domain Structures and Dust in the Solar Vicinity: Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 50	8	7
107	Terrestrial Bow Shock Parameters From MMS Measurements: Dependence on Upstream and Downstream Time Ranges. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027231	2.6	1
106	Phase Decoherence Within Intense Chorus Wave Packets Constrains the Efficiency of Nonlinear Resonant Electron Acceleration. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089807	4.9	18
105	Outer Radiation Belt Electron Lifetime Model Based on Combined Van Allen Probes and Cluster VLF Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028018	2.6	6
104	DC and Low-Frequency Electric Field Measurements on the Parker Solar Probe. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027980	2.6	10
103	Localized Magnetic-field Structures and Their Boundaries in the Near-Sun Solar Wind from Parker Solar Probe Measurements. <i>Astrophysical Journal</i> , 2020 , 893, 93	4.7	23
102	Time Scales for Electron Quasi-linear Diffusion by Lower-Band Chorus Waves: The Effects of β_e/β_i Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2019 , 46, 6178-6187	4.9	13
101	EMIC Wave-Driven Bounce Resonance Scattering of Energetic Electrons in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2484	2.6	13
100	On the Generation of Probabilistic Forecasts From Deterministic Models. <i>Space Weather</i> , 2019 , 17, 455-475	4.7	5
99	Contribution of ULF Wave Activity to the Global Recovery of the Outer Radiation Belt During the Passage of a High-Speed Solar Wind Stream Observed in September 2014. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1660-1678	2.6	9
98	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1063-1084	2.6	17
97	Cross-Shock Potential in Rippled Versus Planar Quasi-Perpendicular Shocks Observed by MMS. <i>Geophysical Research Letters</i> , 2019 , 46, 2381-2389	4.9	15
96	Statistical Analysis of Transverse Size of Lower Band Chorus Waves Using Simultaneous Multisatellite Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 5725-5734	4.9	12
95	Scattering of Energetic Electrons by Heat-flux-driven Whistlers in Flares. <i>Astrophysical Journal</i> , 2019 , 887, 190	4.7	11
94	Electron-acoustic solitary waves in the Earth's inner magnetosphere. <i>Physics of Plasmas</i> , 2018 , 25, 022905	5.1	31
93	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. <i>Geophysical Research Letters</i> , 2018 , 45, 2168-2176	4.9	19

92	Simultaneous Observations of Lower Band Chorus Emissions at the Equator and Microburst Precipitating Electrons in the Ionosphere. <i>Geophysical Research Letters</i> , 2018 , 45, 511-516	4.9	33
91	Synthetic Empirical Chorus Wave Model From Combined Van Allen Probes and Cluster Statistics. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 297-314	2.6	61
90	Electrostatic Steepening of Whistler Waves. <i>Physical Review Letters</i> , 2018 , 120, 195101	7.4	22
89	Solitary Waves Across Supercritical Quasi-Perpendicular Shocks. <i>Geophysical Research Letters</i> , 2018 , 45, 5809	4.9	26
88	Drift Resonance of Compressional ULF Waves and Substorm-Injected Protons From Multipoint THEMIS Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9406-9419	2.6	22
87	Direct Observation of Electron Distributions inside Millisecond Duration Electron Holes. <i>Physical Review Letters</i> , 2018 , 121, 135102	7.4	21
86	Microburst Scale Size Derived From Multiple Bounces of a Microburst Simultaneously Observed With the FIREBIRD-II CubeSats. <i>Geophysical Research Letters</i> , 2018 , 45, 8811-8818	4.9	18
85	Spatial Extent and Temporal Correlation of Chorus and Hiss: Statistical Results From Multipoint THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8317-8330	2.6	39
84	Extremely field-aligned cool electrons in the dayside outer magnetosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 44-51	4.9	7
83	Evolution of electron phase space holes in inhomogeneous magnetic fields. <i>Geophysical Research Letters</i> , 2017 , 44, 2105-2112	4.9	7
82	EMIC wave scale size in the inner magnetosphere: Observations from the dual Van Allen Probes. <i>Geophysical Research Letters</i> , 2017 , 44, 1227-1233	4.9	37
81	Diffusive scattering of electrons by electron holes around injection fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3163-3182	2.6	36
80	Chorus whistler wave source scales as determined from multipoint Van Allen Probe measurements. <i>Geophysical Research Letters</i> , 2017 , 44, 2634-2642	4.9	32
79	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2017 , 842, L11	7.9	29
78	Electron-acoustic solitons and double layers in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 4575-4583	4.9	43
77	Transverse eV ion heating by random electric field fluctuations in the plasmasphere. <i>Physics of Plasmas</i> , 2017 , 24, 022903	2.1	5
76	Electron holes in the outer radiation belt: Characteristics and their role in electron energization. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 120-135	2.6	24
75	CIMI simulations with newly developed multiparameter chorus and plasmaspheric hiss wave models. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9344-9357	2.6	14

74	Pulsating auroras produced by interactions of electrons and time domain structures. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8604-8616	2.6	11
73	Observations Directly Linking Relativistic Electron Microbursts to Whistler Mode Chorus: Van Allen Probes and FIREBIRD II. <i>Geophysical Research Letters</i> , 2017 , 44, 11,265-11,272	4.9	63
72	Evolution of electron phase space holes in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 062311	1.1	9
71	Observation of chorus waves by the Van Allen Probes: Dependence on solar wind parameters and scale size. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7608-7621	2.6	22
70	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016 , 116, 145101	7.4	40
69	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. <i>Nature Communications</i> , 2016 , 7, 12883	17.4	90
68	Equatorial electron loss by double resonance with oblique and parallel intense chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4498-4517	2.6	13
67	Oblique Whistler-Mode Waves in the Earth's Inner Magnetosphere: Energy Distribution, Origins, and Role in Radiation Belt Dynamics. <i>Space Science Reviews</i> , 2016 , 200, 261-355	7.5	111
66	Near-relativistic electron acceleration by Landau trapping in time domain structures. <i>Geophysical Research Letters</i> , 2016 , 43, 508-514	4.9	31
65	EMIC wave spatial and coherence scales as determined from multipoint Van Allen Probe measurements. <i>Geophysical Research Letters</i> , 2016 , 43, 4799-4807	4.9	21
64	Fast dropouts of multi-MeV electrons due to combined effects of EMIC and whistler mode waves. <i>Geophysical Research Letters</i> , 2016 , 43, 4155-4163	4.9	63
63	Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. <i>Physics of Plasmas</i> , 2016 , 23, 052306	2.1	20
62	Exclusion principle for very oblique and parallel lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 11,112	4.9	31
61	The development of a bursty precipitation front with intense localized parallel electric fields driven by whistler waves. <i>Geophysical Research Letters</i> , 2015 , 42, 2563-2570	4.9	29
60	Wave energy budget analysis in the Earth's radiation belts uncovers a missing energy. <i>Nature Communications</i> , 2015 , 6, 8143	17.4	47
59	Field-aligned chorus wave spectral power in Earth's outer radiation belt. <i>Annales Geophysicae</i> , 2015 , 33, 583-597	2	8
58	Relativistic electron scattering by magnetosonic waves: Effects of discrete wave emission and high wave amplitudes. <i>Physics of Plasmas</i> , 2015 , 22, 062901	2.1	18
57	Empirical model of lower band chorus wave distribution in the outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10,425-10,442	2.6	33

56	Magnetic field depression within electron holes. <i>Geophysical Research Letters</i> , 2015 , 42, 2123-2129	4.9	30
55	Very oblique whistler generation by low-energy electron streams. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3665-3683	2.6	62
54	Generation of nonlinear electric field bursts in the outer radiation belt through the parametric decay of whistler waves. <i>Geophysical Research Letters</i> , 2015 , 42, 3715-3722	4.9	37
53	Probability of relativistic electron trapping by parallel and oblique whistler-mode waves in Earth's radiation belts. <i>Physics of Plasmas</i> , 2015 , 22, 112903	2.1	28
52	Stability of relativistic electron trapping by strong whistler or electromagnetic ion cyclotron waves. <i>Physics of Plasmas</i> , 2015 , 22, 082901	2.1	30
51	Nonlinear local parallel acceleration of electrons through Landau trapping by oblique whistler mode waves in the outer radiation belt. <i>Geophysical Research Letters</i> , 2015 , 42, 10,140	4.9	55
50	Thermal electron acceleration by electric field spikes in the outer radiation belt: Generation of field-aligned pitch angle distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8616-8632	2.6	24
49	Approximate analytical formulation of radial diffusion and whistler-induced losses from a preexisting flux peak in the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7191-7208	2.6	2
48	Butterfly pitch angle distribution of relativistic electrons in the outer radiation belt: Evidence of nonadiabatic scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4279-4297	2.6	15
47	Time domain structures: What and where they are, what they do, and how they are made. <i>Geophysical Research Letters</i> , 2015 , 42, 3627-3638	4.9	95
46	Wave-particle interactions in the outer radiation belts. <i>Advances in Astronomy and Space Physics</i> , 2015 , 5, 68-74	0.2	1
45	A reconstruction method of electron density distribution in the equatorial region of magnetosphere. <i>Advances in Astronomy and Space Physics</i> , 2015 , 5, 104-108	0.2	
44	The quasi-electrostatic mode of chorus waves and electron nonlinear acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1606-1626	2.6	54
43	Consequences of geomagnetic activity on energization and loss of radiation belt electrons by oblique chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2775-2796	2.6	68
42	Electron scattering and nonlinear trapping by oblique whistler waves: The critical wave intensity for nonlinear effects. <i>Physics of Plasmas</i> , 2014 , 21, 102903	2.1	35
41	Direct observation of radiation-belt electron acceleration from electron-volt energies to megavolts by nonlinear whistlers. <i>Physical Review Letters</i> , 2014 , 113, 035001	7.4	61
40	Statistical study of chorus wave distributions in the inner magnetosphere using Ae and solar wind parameters. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6131-6144	2.6	25
39	Fast transport of resonant electrons in phase space due to nonlinear trapping by whistler waves. <i>Geophysical Research Letters</i> , 2014 , 41, 5727-5733	4.9	39

38	Thermal electron acceleration by localized bursts of electric field in the radiation belts. <i>Geophysical Research Letters</i> , 2014 , 41, 5734-5739	4.9	36
37	Inner belt and slot region electron lifetimes and energization rates based on AKEBONO statistics of whistler waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2876-2893	2.6	40
36	Approximate analytical solutions for the trapped electron distribution due to quasi-linear diffusion by whistler mode waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9962-9977	2.6	15
35	Evidence of stronger pitch angle scattering loss caused by oblique whistler-mode waves as compared with quasi-parallel waves. <i>Geophysical Research Letters</i> , 2014 , 41, 6063-6070	4.9	54
34	On the origin of falling-tone chorus elements in Earth's inner magnetosphere. <i>Annales Geophysicae</i> , 2014 , 32, 1477-1485	2	9
33	Analytical estimates of electron quasi-linear diffusion by fast magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3096-3112	2.6	60
32	Specific features of VLF wave propagation in the earth's inner magnetosphere. <i>Kinematics and Physics of Celestial Bodies</i> , 2013 , 29, 107-119	0.6	
31	Cyclotron resonance in plasma flow. <i>Physics of Plasmas</i> , 2013 , 20, 124502	2.1	5
30	Nonlinear electron acceleration by oblique whistler waves: Landau resonance vs. cyclotron resonance. <i>Physics of Plasmas</i> , 2013 , 20, 122901	2.1	44
29	GYROSURFING ACCELERATION OF IONS IN FRONT OF EARTH'S QUASI-PARALLEL BOW SHOCK. <i>Astrophysical Journal</i> , 2013 , 771, 4	4.7	15
28	Parametric validations of analytical lifetime estimates for radiation belt electron diffusion by whistler waves. <i>Annales Geophysicae</i> , 2013 , 31, 599-624	2	37
27	Spatial spreading of magnetospherically reflected chorus elements in the inner magnetosphere. <i>Annales Geophysicae</i> , 2013 , 31, 1429-1435	2	11
26	Electron pitch-angle diffusion: resonant scattering by waves vs. nonadiabatic effects. <i>Annales Geophysicae</i> , 2013 , 31, 1485-1490	2	13
25	Statistics of whistler mode waves in the outer radiation belt: Cluster STAFF-SA measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3407-3420	2.6	173
24	Storm-induced energization of radiation belt electrons: Effect of wave obliquity. <i>Geophysical Research Letters</i> , 2013 , 40, 4138-4143	4.9	38
23	Non-diffusive resonant acceleration of electrons in the radiation belts. <i>Physics of Plasmas</i> , 2012 , 19, 122901	2.1	55
22	Electron pitch-angle diffusion in radiation belts: The effects of whistler wave oblique propagation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	40
21	Acceleration of radiation belts electrons by oblique chorus waves. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26

20	Statistical model of electron pitch angle diffusion in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		14
19	Timescales for electron quasi-linear diffusion by parallel and oblique lower-band chorus waves. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		59
18	Chorus wave-normal statistics in the Earth's radiation belts from ray tracing technique. <i>Annales Geophysicae</i> , 2012 , 30, 1223-1233	2	36
17	Correction to A statistical study of the propagation characteristics of whistler waves observed by Cluster. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	30
16	A statistical study of the propagation characteristics of whistler waves observed by Cluster. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	31
15	Multispacecraft observations of chorus emissions as a tool for the plasma density fluctuations' remote sensing. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		31
14	Ducted propagation of chorus waves: Cluster observations. <i>Annales Geophysicae</i> , 2011 , 29, 1629-1634	2	9
13	Polarization of ULF waves in the earth's magnetosphere. <i>Kinematics and Physics of Celestial Bodies</i> , 2011 , 27, 117-123	0.6	16
12	The geometric parameters of solar wind discontinuities based on STEREO, ACE and WIND measurements. <i>International Journal of Remote Sensing</i> , 2011 , 32, 3239-3247	3.1	1
11	Observations and modeling of forward and reflected chorus waves captured by THEMIS. <i>Annales Geophysicae</i> , 2011 , 29, 541-550	2	13
10	Chorus source region localization in the Earth's outer magnetosphere using THEMIS measurements. <i>Annales Geophysicae</i> , 2010 , 28, 1377-1386	2	39
9	The effect of magnetic topology on particle acceleration in a three-dimensional reconnecting current sheet: a test-particle approach. <i>Journal of Plasma Physics</i> , 2009 , 75, 159-181	2.7	19
8	Surface waves and field line resonances: A THEMIS case study. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		41
7	Ballooning perturbations in the inner magnetosphere of the Earth: Spectrum, stability and eigenmode analysis. <i>Advances in Space Research</i> , 2008 , 41, 1682-1687	2.4	19
6	Structure and long-term change in the zonal asymmetry in Antarctic total ozone during spring. <i>Annales Geophysicae</i> , 2007 , 25, 361-374	2	44
5	Longitudinal position of the quasi-stationary wave extremes over the Antarctic region from the TOMS total ozone. <i>International Journal of Remote Sensing</i> , 2007 , 28, 1391-1396	3.1	4
4	Relativistic jets and non-thermal radiation from collapse of stars to black holes. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 395-396	0.1	
3	Synchrotron emission of weakly-relativistic electron beams at midlatitude ionospheric altitudes. <i>Geomagnetism and Aeronomy</i> , 2006 , 46, 667-675	0.9	

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| 2 | Model of vortex tubes in the low-latitude plasma sheet of the earth magnetosphere. <i>Advances in Space Research</i> , 2001 , 28, 801-806 | 2.4 | 4 |
| 1 | The 16-year periodicity in the winter surface temperature variations in the Antarctic Peninsula region. <i>Climate Dynamics</i> ,1 | 4.2 | |