

G V Khazanov

List of Publications by Year in descending order

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79
papers

1,630
citations

279798

23
h-index

330143

37
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81
all docs

81
docs citations

81
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetosphere-Ionosphere Coupling of Precipitated Electrons in Diffuse Aurora Driven by Time Domain Structures. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092655.	4.0	8
2	Why Atmospheric Backscatter Is Important in the Formation of Electron Precipitation in the Diffuse Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029211.	2.4	5
3	Electron Energy Interplay in the Geomagnetic Trap Below the Auroral Acceleration Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028811.	2.4	7
4	The Precipitated Electrons in the Region of Diffuse Aurora Driven by Ionosphere-Thermosphere Collisional Processes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094583.	4.0	6
5	Dayside Low Energy Electron Precipitation Driven by Hiss Waves in the Presence of Ionospheric Photoelectrons. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	5
6	Effects of Electron Precipitation on E-Region Instabilities: Theoretical Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	3
7	To the Interchange Instability Criterion in the Magnetosphere in the Presence of Velocity Shear. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028172.	2.4	1
8	The Formation of Electron Heat Flux in the Region of Diffuse Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028175.	2.4	13
9	How Magnetically Conjugate Atmospheres and the Magnetosphere Participate in the Formation of Low-Energy Electron Precipitation in the Region of Diffuse Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028057.	2.4	7
10	Formation of the Potential Jump Over the Geomagnetically Quiet Sunlit Polar Cap Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4384-4401.	2.4	5
11	Source of the Bursty Bulk Flow Diffuse Aurora: Electrostatic Cyclotron Harmonic and Whistler Waves in the Coupling of Bursty Bulk Flows to Auroral Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6669-6690.	2.4	8
12	The Magnetosphere-Ionosphere Electron Precipitation Dynamics and Their Geospace Consequences During the 17 March 2013 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6504-6523.	2.4	16
13	The Formation of Electron Heat Flux Over the Sunlit Quiet Polar Cap Ionosphere. <i>Geophysical Research Letters</i> , 2019, 46, 10201-10208.	4.0	8
14	Low Energy Precipitating Electrons in the Diffuse Aurorae. <i>Geophysical Research Letters</i> , 2019, 46, 3582-3589.	4.0	11
15	Impact of Precipitating Electrons and Magnetosphere-Ionosphere Coupling Processes on Ionospheric Conductance. <i>Space Weather</i> , 2018, 16, 829-837.	3.7	32
16	Is diffuse aurora driven from above or below?. <i>Geophysical Research Letters</i> , 2017, 44, 641-647.	4.0	18
17	How Hospitable Are Space Weather Affected Habitable Zones? The Role of Ion Escape. <i>Astrophysical Journal Letters</i> , 2017, 836, L3.	8.3	185
18	First optical observations of interhemispheric electron reflections within pulsating aurora. <i>Geophysical Research Letters</i> , 2017, 44, 2618-2623.	4.0	13

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19	Major pathways to electron distribution function formation in regions of diffuse aurora. Journal of Geophysical Research: Space Physics, 2017, 122, 4251-4265.	2.4	18
20	Simple analytical expressions for electron pitch angle diffusion coefficients. Physics of Plasmas, 2017, 24, 032904.	1.9	2
21	Lower hybrid frequency range waves generated by ion polarization drift due to electromagnetic ion cyclotron waves: Analysis of an event observed by the Van Allen Probe B. Journal of Geophysical Research: Space Physics, 2017, 122, 449-463.	2.4	5
22	Photoelectrons in the quiet polar wind. Journal of Geophysical Research: Space Physics, 2017, 122, 6708-6726.	2.4	25
23	Ionosphere-magnetosphere energy interplay in the regions of diffuse aurora. Journal of Geophysical Research: Space Physics, 2016, 121, 6661-6673.	2.4	8
24	Banded structures in electron pitch angle diffusion coefficients from resonant wave-particle interactions. Physics of Plasmas, 2016, 23, .	1.9	3
25	Electron distribution function formation in regions of diffuse aurora. Journal of Geophysical Research: Space Physics, 2015, 120, 9891-9915.	2.4	40
26	Superthermal electron magnetosphere-ionosphere coupling in the diffuse aurora in the presence of ECH waves. Journal of Geophysical Research: Space Physics, 2015, 120, 445-459.	2.4	12
27	Stochastic electron motion driven by space plasma waves. Nonlinear Processes in Geophysics, 2014, 21, 61-85.	1.3	9
28	Magnetosphere-ionosphere energy interchange in the electron diffuse aurora. Journal of Geophysical Research: Space Physics, 2014, 119, 171-184.	2.4	47
29	Radiation belt electron dynamics driven by large-amplitude whistlers. Journal of Geophysical Research: Space Physics, 2013, 118, 6397-6404.	2.4	4
30	Superthermal electron energy interchange in the ionosphere-plasmasphere system. Journal of Geophysical Research: Space Physics, 2013, 118, 925-934.	2.4	7
31	Restrictions on the quasi-linear description of electron-chorus interaction in the earth's magnetosphere. Radiation Effects and Defects in Solids, 2013, 168, 799-804.	1.2	0
32	Kinetic description of ionospheric outflows based on the exact form of Fokker-Planck collision operator: Electrons. Journal of Geophysical Research, 2012, 117, .	3.3	5
33	Bursty precipitation driven by chorus waves. Radiation Effects and Defects in Solids, 2011, 166, 795-805.	1.2	3
34	Kinetic Theory of the Inner Magnetospheric Plasma. Astrophysics and Space Science Library, 2011, , .	2.7	43
35	Kinetic Theory of Ring Current and Electromagnetic Ion Cyclotron Waves: Fundamentals. Astrophysics and Space Science Library, 2011, , 429-489.	2.7	1
36	Kinetic Theory of Ring Current and Electromagnetic Ion Cyclotron Waves: Applications. Astrophysics and Space Science Library, 2011, , 491-540.	2.7	0

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37	Stochastic ion heating by the lower-hybrid waves. <i>Radiation Effects and Defects in Solids</i> , 2010, 165, 165-176.	1.2	2
38	Sounding rocket experiment of bare electrodynamic tether system. <i>Acta Astronautica</i> , 2009, 64, 313-324.	3.2	32
39	Self-consistent model of magnetospheric electric field, ring current, plasmasphere, and electromagnetic ion cyclotron waves: Initial results. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	23
40	Nonlinear electron motion in a coherent whistler wave packet. <i>Physics of Plasmas</i> , 2008, 15, 073506.	1.9	5
41	Dynamic theory of relativistic electrons stochastic heating by whistler mode waves with application to the Earth magnetosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	8
42	Influence of the convection electric field models on predicted plasmopause positions during magnetic storms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
43	Crucial role of ring current H_{ring} in electromagnetic ion cyclotron wave dispersion relation: Results from global simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
44	Chaotic motion of relativistic electrons driven by whistler waves. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 447-466.	2.1	14
45	Electrostatic wave generation and transverse ion acceleration by Alfvénic wave components of broadband extremely low frequency turbulence. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	17
46	Self-consistent model of magnetospheric ring current and propagating electromagnetic ion cyclotron waves: 2. Wave-induced ring current precipitation and thermal electron heating. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	29
47	Effect of electromagnetic ion cyclotron wave normal angle distribution on relativistic electron scattering in outer radiation belt. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	6
48	Correction to "Effect of oblique electromagnetic ion cyclotron waves on relativistic electron scattering: Combined Release and Radiation Effects Satellite (CRRES)-based calculation". <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	2
49	Self-consistent model of magnetospheric ring current and propagating electromagnetic ion cyclotron waves: Waves in multi-ion magnetosphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	43
50	Solid and grid sphere current collection in view of the tethered satellite system TSS 1 and TSS 1R mission results. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	3
51	The nonlinear coupling of electromagnetic ion cyclotron and lower hybrid waves in the ring current region: the magnetic storm 1-7May 1998. <i>Nonlinear Processes in Geophysics</i> , 2004, 11, 229-239.	1.3	3
52	Stormtime particle energization with high temporal resolution AMIE potentials. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	23
53	Numerical simulation of waves driven by plasma currents generated by low-frequency Alfvén waves in a multi-ion plasma. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10
54	Self-consistent magnetosphere-ionosphere coupling: Theoretical studies. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	38

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55	Self-consistent model of magnetospheric ring current and electromagnetic ion cyclotron waves: The 28 May 1998 storm. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	52
56	A radiation belt-ring current forecasting model. <i>Space Weather</i> , 2003, 1, n/a-n/a.	3.7	26
57	Transport of photoelectrons in the nightside magnetosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 10-1.	3.3	9
58	Adiabatic energization in the ring current and its relation to other source and loss terms. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 4-1.	3.3	26
59	Ionospheres: Physics, plasma physics, and chemistry. <i>Eos</i> , 2001, 82, 556-556.	0.1	2
60	Interhemispheric transport of relativistic electron beams. <i>Geophysical Research Letters</i> , 1999, 26, 581-584.	4.0	11
61	Analysis of early phase ring current recovery mechanisms during geomagnetic storms. <i>Geophysical Research Letters</i> , 1999, 26, 2845-2848.	4.0	162
62	Generalized kinetic description of a plasma in an arbitrary field-aligned potential energy structure. <i>Journal of Geophysical Research</i> , 1998, 103, 6871-6889.	3.3	30
63	Collisionless plasma modeling in an arbitrary potential energy distribution. <i>Physics of Plasmas</i> , 1998, 5, 580-589.	1.9	22
64	Achieving zero current for polar wind outflow on open flux tubes subjected to large photoelectron fluxes. <i>Geophysical Research Letters</i> , 1997, 24, 1183-1186.	4.0	33
65	A model for lower hybrid wave excitation compared with observations by Viking. <i>Geophysical Research Letters</i> , 1997, 24, 2399-2402.	4.0	6
66	Lower hybrid oscillations in multicomponent space plasmas subjected to ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1997, 102, 175-184.	3.3	17
67	Photoelectron effects on the self-consistent potential in the collisionless polar wind. <i>Journal of Geophysical Research</i> , 1997, 102, 7509-7521.	3.3	66
68	Self-consistent superthermal electron effects on plasmaspheric refilling. <i>Journal of Geophysical Research</i> , 1997, 102, 7523-7536.	3.3	35
69	Global, collisional model of high-energy photoelectrons. <i>Geophysical Research Letters</i> , 1996, 23, 331-334.	4.0	21
70	Lower hybrid turbulence and ponderomotive force effects in space plasmas subjected to large-amplitude low-frequency waves. <i>Geophysical Research Letters</i> , 1996, 23, 797-800.	4.0	27
71	Nonsteady state coupling processes in superthermal electron transport. <i>Geophysical Monograph Series</i> , 1995, , 181-191.	0.1	10
72	Nonsteady state ionosphere-plasmasphere coupling of superthermal electrons. <i>Journal of Geophysical Research</i> , 1995, 100, 9669.	3.3	54

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73	Self-consistent electrostatic potential due to trapped plasma in the magnetosphere. Geophysical Research Letters, 1993, 20, 1331-1334.	4.0	13
74	A kinetic description of electron beam ejection from spacecraft. Geophysical Research Letters, 1993, 20, 1999-2002.	4.0	8
75	Non-steady-state transport of superthermal electrons in the plasmasphere. Geophysical Research Letters, 1993, 20, 2821-2824.	4.0	36
76	Parametric excitation of longitudinal oscillations by the lower frequency pumping wave. Plasma Physics and Controlled Fusion, 1992, 34, 1359-1367.	2.1	5
77	Analytic description of the electron temperature behavior in the upper ionosphere and plasmasphere. Geophysical Research Letters, 1992, 19, 1915-1918.	4.0	14
78	Anisotropic ion heating and parallel O^{+} acceleration in regions of rapid $E \times B$ convection. Geophysical Research Letters, 1992, 19, 2289-2292.	4.0	27
79	Parameterization of Ring Current Adiabatic Energization. Geophysical Monograph Series, 0, , 215-229.	0.1	4