

Konstantin V Gamayunov

List of Publications by Citations

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34
papers

439
citations

12
h-index

20
g-index

35
ext. papers

470
ext. citations

3.1
avg, IF

3.34
L-index

#	Paper	IF	Citations
34	PITCH ANGLE SCATTERING IN THE OUTER HELIOSHEATH AND FORMATION OF THE INTERSTELLAR BOUNDARY EXPLORER RIBBON. <i>Astrophysical Journal</i> , 2010 , 725, 2251-2261	4.7	54
33	Self-consistent model of magnetospheric ring current and electromagnetic ion cyclotron waves: The 27 May 1998 storm. <i>Journal of Geophysical Research</i> , 2003 , 108,		44
32	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,		38
31	A self-consistent model of the interacting ring current ions and electromagnetic ion cyclotron waves, initial results: Waves and precipitating fluxes. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 14-1		35
30	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		24
29	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, n/a-n/a		22
28	ENERGY SPECTRUM OF ENERGETIC PARTICLES ACCELERATED BY SHOCK WAVES: FROM FOCUSED TRANSPORT TO DIFFUSIVE ACCELERATION. <i>Astrophysical Journal</i> , 2011 , 738, 168	4.7	20
27	SELF-CONSISTENT MODEL OF THE INTERSTELLAR PICKUP PROTONS, ALFVÉNIC TURBULENCE, AND CORE SOLAR WIND IN THE OUTER HELIOSPHERE. <i>Astrophysical Journal</i> , 2012 , 757, 74	4.7	19
26	A theoretical model for the ring current interaction with the earth's plasmasphere. <i>Planetary and Space Science</i> , 1992 , 40, 859-872	2	19
25	Crucial role of ring current H ⁺ in electromagnetic ion cyclotron wave dispersion relation: Results from global simulations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		16
24	NEUTRAL ATOM PROPERTIES IN THE DIRECTION OF THE RIBBON.. <i>Astrophysical Journal</i> , 2016 , 831,	4.7	16
23	Reply to comment by R. M. Thorne and R. B. Horne on Khazanov et al. [2002] and Khazanov et al. [2006]. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		13
22	Model of electromagnetic ion cyclotron waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7541-7565	2.6	12
21	A Test of the Interstellar Boundary Explorer Ribbon Formation in the Outer Heliosheath. <i>Astrophysical Journal</i> , 2017 , 845, 63	4.7	12
20	Generation of EMIC Waves Observed by Van Allen Probes at Low L Shells. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8533-8556	2.6	11
19	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		9
18	Current-induced magnetic field effects on bare tether current collection: A parametric study. <i>Journal of Geophysical Research</i> , 2001 , 106, 10565-10579		8

17	Influence of hot anisotropic ions on properties of nonlinear Alfvén waves. <i>Plasma Physics and Controlled Fusion</i> , 1995 , 37, 1095-1117	2	8
16	Hydrodynamic description of magnetosphere plasma with due regard to the wave activity of Alfvén and fast magnetosonic waves. <i>Planetary and Space Science</i> , 1991 , 39, 1097-1105	2	8
15	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, n/a-n/a		6
14	Magnetic reconnection in the neutral current sheet in the presence of a small fraction of hot anisotropic ions. <i>Plasma Physics and Controlled Fusion</i> , 1998 , 40, 1285-1312	2	6
13	Source of seed fluctuations for electromagnetic ion cyclotron waves in Earth's magnetosphere. <i>Advances in Space Research</i> , 2015 , 55, 2573-2583	2.4	5
12	Alfvén waves as a source of lower-hybrid activity in the ring current region. <i>Journal of Geophysical Research</i> , 2000 , 105, 5403-5409		5
11	The effect of the hot, anisotropic magnetospheric protons on the dispersion relation. <i>Advances in Space Research</i> , 1993 , 13, 121-126	2.4	5
10	Effect of the Interstellar Magnetic Field Draping around the Heliopause on the IBEX Ribbon. <i>Astrophysical Journal Letters</i> , 2019 , 876, L21	7.9	4
9	Parametric excitation of longitudinal oscillations by the lower frequency pumping wave. <i>Plasma Physics and Controlled Fusion</i> , 1992 , 34, 1359-1367	2	4
8	Saturation of Alfvén oscillations in the ring current region due to generation of lower hybrid waves. <i>Planetary and Space Science</i> , 1992 , 40, 477-479	2	4
7	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	2.9	3
6	Parametric excitation of high-frequency electromagnetic waves by the lower-frequency dipole pumping. <i>Physics of Fluids B</i> , 1993 , 5, 92-103		3
5	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		2
4	EMIC Waves in the Earth's Inner Magnetosphere as a Function of Solar Wind Structures During Solar Maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027990	2.6	2
3	Strong pitch-angle diffusion of ring current ions in geomagnetic storm-associated conditions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 142-150	2	1
2	Low Frequency ULF Waves in the Earth's Inner Magnetosphere: Statistics During Coronal Mass Ejections and Seeding of EMIC Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029247	2.6	0
1	Plasma hydrodynamics in view of quasilinear effects. <i>Planetary and Space Science</i> , 1993 , 41, 27-33	2	