

Konstantin Kabin

List of Publications by Year in descending order

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citations

361413

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58
all docs

58
docs citations

58
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics-Based Analytical Model of the Planetary Bow Shock Position and Shape. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029104.	2.4	3
2	Effect of solar wind density and velocity on the subsolar standoff distance of the Martian magnetic pileup boundary. Astronomy and Astrophysics, 2021, 651, A22.	5.1	9
3	Epicycloid fits to trajectories of particles confined to the equatorial plane of a magnetic dipole. Physics of Plasmas, 2021, 28, 102505.	1.9	1
4	Adiabatic invariant of a charged particle moving in a magnetic field with a constant gradient. Physics of Plasmas, 2021, 28, .	1.9	3
5	Influence of the Interplanetary Magnetic Field Cone Angle on the Geometry of Bow Shocks. Astronomical Journal, 2020, 159, 227.	4.7	10
6	Analytical Description of the Near Planetary Bow Shock Based on Gas-Dynamic and Magneto-Gas-Dynamic Modeling for the Magnetic Field Parallel and Perpendicular to the Plasma Flow. Geomagnetism and Aeronomy, 2020, 60, 162-170.	0.8	3
7	ANALYTICAL MODEL OF THE PLANETARY BOW SHOCK FOR VARIOUS MAGNETIC FIELD DIRECTIONS BASED ON MHD CALCULATIONS. SolneĖno-zemnaĖ Fizika, 2020, 6, 44-49.	0.9	1
8	A 3D Parametric Martian Bow Shock Model with the Effects of Mach Number, Dynamic Pressure, and the Interplanetary Magnetic Field. Astrophysical Journal, 2020, 903, 125.	4.5	18
9	Earth's Bow Shock: A New Three-Dimensional Asymmetric Model With Dipole Tilt Effects. Journal of Geophysical Research: Space Physics, 2019, 124, 5396-5407.	2.4	7
10	Two examples of exact calculations of the adiabatic invariant for charged particle motion in non-uniform axisymmetric magnetic fields. Physics of Plasmas, 2019, 26, 012114.	1.9	4
11	The Influence of IMF B_y on the Bow Shock: Observation Result. Journal of Geophysical Research: Space Physics, 2018, 123, 1915-1926.	2.4	8
12	Threshold speed for two-dimensional confinement of charged particles in certain axisymmetric magnetic fields. Canadian Journal of Physics, 2018, 96, 519-523.	1.1	2
13	Faraday Rotation, Total Electron Content, and Their Sensitivity to the Average Parallel Component of the Magnetic Field. Radio Science, 2018, 53, 1075-1088.	1.6	3
14	Particle energization by a substorm dipolarization. Journal of Geophysical Research: Space Physics, 2017, 122, 349-367.	2.4	9
15	Faraday Rotation of Automatic Dependent Surveillance-Broadcast (ADS-B) Signals as a Method of Ionospheric Characterization. Radio Science, 2017, 52, 1293-1300.	1.6	4
16	The influence of IMF clock angle on the cross section of the tail bow shock. Journal of Geophysical Research: Space Physics, 2016, 121, 11,077.	2.4	10
17	A three-dimensional high Mach number asymmetric magnetopause model from global MHD simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 5645-5666.	2.4	43
18	Pressure balance across the magnetopause: Global MHD results. Planetary and Space Science, 2015, 106, 108-115.	1.7	16

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19	The dipole tilt angle dependence of the bow shock for southward IMF: MHD results. <i>Planetary and Space Science</i> , 2015, 106, 99-107.	1.7	14
20	Ion temperature anisotropy effects on the dispersion relation and threshold conditions of a sheared current-driven electrostatic ion-acoustic instability with applications to the collisional high-latitude F-region. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	1
21	Motion of a charged particle in an axisymmetric longitudinal magnetic field that is inversely proportional to the radius. <i>Computer Physics Communications</i> , 2015, 189, 155-161.	7.5	6
22	MHD simulation of energy transfer across magnetopause during sudden changes of the IMF orientation. <i>Planetary and Space Science</i> , 2014, 97, 50-59.	1.7	14
23	Energy transfer across the magnetopause for northward and southward interplanetary magnetic fields. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2021-2033.	2.4	22
24	The IMF dependence of the magnetopause from global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3113-3125.	2.4	31
25	Dipole tilt control of the magnetopause for southward IMF from global magnetohydrodynamic simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
26	Modeling the relationship between substorm dipolarization and dispersionless injection. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	6
27	Three dimensional shape of the magnetopause: Global MHD results. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	39
28	Excitation and steepening of ion-acoustic waves in the ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	2
29	Dipole tilt effects on the magnetosphere-ionosphere convection system during interplanetary magnetic field B_Y -dominated periods: MHD modeling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
30	Comparison of the open-closed separatrix in a global magnetospheric simulation with observations: The role of the ring current. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
31	THEMIS observations of the spatial extent and pressure-pulse excitation of field line resonances. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	36
32	Optical characterization of the growth and spatial structure of a substorm onset arc. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
33	Modeling ULF waves in a compressed dipole magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	47
34	Characterization of ULF pulsations by THEMIS. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	46
35	Deformation and evolution of solar wind discontinuities through their interactions with the Earth's bow shock. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	13
36	SPATIAL DISTRIBUTION AND ENERGY SPECTRUM OF HEAVY IONS IN THE HERMEAN MAGNETOSPHERE WITH APPLICATIONS TO MESSENGER FLYBYS. , 2009, , 1-16.		1

#	ARTICLE	IF	CITATIONS
37	POLARIZATION PROPERTIES OF THE ULTRA-LOW FREQUENCY WAVES IN NON-AXISYMMETRIC BACKGROUND MAGNETIC FIELDS. , 2009, , 225-235.		2
38	Mercury redux. Nature Geoscience, 2008, 1, 564-564.	12.9	4
39	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. Journal of Geophysical Research, 2008, 113, .	3.3	77
40	Nonlinear effects in the ionospheric Alfvén resonator. Journal of Geophysical Research, 2008, 113, .	3.3	19
41	Test kinetic modelling of collisionless perpendicular shocks. Journal of Plasma Physics, 2008, 74, 301-318.	2.1	11
42	Origin of the interhemispheric potential mismatch of merging cells for interplanetary magnetic field B-dominated periods. Journal of Geophysical Research, 2007, 112, .	3.3	22
43	Theoretical aspects of kinetic and inertial scale dispersive Alfvén waves in Earth's magnetosphere. Geophysical Monograph Series, 2006, , 91-108.	0.1	5
44	Divergence-free magnetic field interpolation and charged particle trajectory integration. Journal of Geophysical Research, 2006, 111, .	3.3	28
45	Ionospheric signatures of internal reconnection for northward interplanetary magnetic field: Observation of "reciprocal cells" and magnetosheath ion precipitation. Journal of Geophysical Research, 2006, 111, .	3.3	17
46	Theory of dispersive shear Alfvén wave focusing in Earth's magnetosphere. Geophysical Research Letters, 2005, 32, .	4.0	19
47	Internal reconnection for northward interplanetary magnetic field. Journal of Geophysical Research, 2005, 110, .	3.3	36
48	Magnetospheric field-line resonances: Ground-based observations and modeling. Journal of Geophysical Research, 2005, 110, .	3.3	34
49	Comparison of photometer and global MHD determination of the open-closed field line boundary. Journal of Geophysical Research, 2004, 109, .	3.3	35
50	Open-closed field line boundary position: A parametric study using an MHD model. Journal of Geophysical Research, 2004, 109, .	3.3	43
51	Dynamic response of Earth's magnetosphere to By reversals. Journal of Geophysical Research, 2003, 108, .	3.3	21
52	Planetary bow shocks: Gasdynamic analytic approach. Journal of Geophysical Research, 2003, 108, .	3.3	34
53	Exact Evaluation of Collision Integrals for the Nonlinear Boltzmann Equation. AIP Conference Proceedings, 2003, , .	0.4	3
54	Velocity distributions of energetic atoms in planetary exospheres from dissociative recombination. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	18

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55	Wind observations of the terrestrial bow shock: 3-D shape and motion. <i>Earth, Planets and Space</i> , 2001, 53, 1001-1009.	2.5	41
56	A note on the compression ratio in MHD shocks. <i>Journal of Plasma Physics</i> , 2001, 66, 259-274.	2.1	18
57	Analysis of the 3-D shape of the terrestrial bow shock by interball/magion 4 observations. <i>Advances in Space Research</i> , 2001, 28, 857-862.	2.6	47
58	Interaction of Mercury with the Solar Wind. <i>Icarus</i> , 2000, 143, 397-406.	2.5	146