Konstantin Kabin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Interaction of Mercury with the Solar Wind. Icarus, 2000, 143, 397-406.	2.5	146
2	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. Journal of Geophysical Research, 2008, 113, .	3.3	77
3	Optical characterization of the growth and spatial structure of a substorm onset arc. Journal of Geophysical Research, 2010, 115, .	3.3	53
4	Analysis of the 3-D shape of the terrestrial bow shock by interball/magion 4 observations. Advances in Space Research, 2001, 28, 857-862.	2.6	47
5	Modeling ULF waves in a compressed dipole magnetic field. Journal of Geophysical Research, 2010, 115, .	3.3	47
6	Characterization of ULF pulsations by THEMIS. Geophysical Research Letters, 2009, 36, .	4.0	46
7	Open-closed field line boundary position: A parametric study using an MHD model. Journal of Geophysical Research, 2004, 109, .	3.3	43
8	A threeâ€dimensional high Mach number asymmetric magnetopause model from global MHD simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 5645-5666.	2.4	43
9	Wind observations of the terrestrial bow shock: 3-D shape and motion. Earth, Planets and Space, 2001, 53, 1001-1009.	2.5	41
10	Three dimensional shape of the magnetopause: Global MHD results. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	39
11	Internal reconnection for northward interplanetary magnetic field. Journal of Geophysical Research, 2005, 110, .	3.3	36
12	THEMIS observations of the spatial extent and pressureâ€pulse excitation of field line resonances. Geophysical Research Letters, 2010, 37, .	4.0	36
13	Comparison of photometer and global MHD determination of the open-closed field line boundary. Journal of Geophysical Research, 2004, 109, .	3.3	35
14	Planetary bow shocks: Gasdynamic analytic approach. Journal of Geophysical Research, 2003, 108, .	3.3	34
15	Magnetospheric field-line resonances: Ground-based observations and modeling. Journal of Geophysical Research, 2005, 110, .	3.3	34
16	The IMF dependence of the magnetopause from global MHD simulations. Journal of Geophysical Research: Space Physics, 2013, 118, 3113-3125.	2.4	31
17	Divergence-free magnetic field interpolation and charged particle trajectory integration. Journal of Geophysical Research, 2006, 111, .	3.3	28
18	Dipole tilt control of the magnetopause for southward IMF from global magnetohydrodynamic simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28

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19	Origin of the interhemispheric potential mismatch of merging cells for interplanetary magnetic field <i>B</i> _{<i>Y</i>} â€dominated periods. Journal of Geophysical Research, 2007, 112, .	3.3	22
20	Energy transfer across the magnetopause for northward and southward interplanetary magnetic fields. Journal of Geophysical Research: Space Physics, 2013, 118, 2021-2033.	2.4	22
21	Dynamic response of Earth's magnetosphere toByreversals. Journal of Geophysical Research, 2003, 108,	3.3	21
22	Theory of dispersive shear Alfvén wave focusing in Earth's magnetosphere. Geophysical Research Letters, 2005, 32, .	4.0	19
23	Nonlinear effects in the ionospheric Alfv $ ilde{A}$ ©n resonator. Journal of Geophysical Research, 2008, 113, .	3.3	19
24	Comparison of the openâ€closed separatrix in a global magnetospheric simulation with observations: The role of the ring current. Journal of Geophysical Research, 2010, 115, .	3.3	19
25	A note on the compression ratio in MHD shocks. Journal of Plasma Physics, 2001, 66, 259-274.	2.1	18
26	Velocity distributions of energetic atoms in planetary exospheres from dissociative recombination. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	18
27	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
28	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
29	Pressure balance across the magnetopause: Global MHD results. Planetary and Space Science, 2015, 106, 108-115.	1.7	16
30	MHD simulation of energy transfer across magnetopause during sudden changes of the IMF orientation. Planetary and Space Science, 2014, 97, 50-59.	1.7	14
31	The dipole tilt angle dependence of the bow shock for southward IMF: MHD results. Planetary and Space Science, 2015, 106, 99-107.	1.7	14
32	Deformation and evolution of solar wind discontinuities through their interactions with the Earth's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	13
33	Test kinetic modelling of collisionless perpendicular shocks. Journal of Plasma Physics, 2008, 74, 301-318.	2.1	11
34	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
35	Influence of the Interplanetary Magnetic Field Cone Angle on the Geometry of Bow Shocks. Astronomical Journal, 2020, 159, 227.	4.7	10
36	Particle energization by a substorm dipolarization. Journal of Geophysical Research: Space Physics, 2017, 122, 349-367.	2.4	9

Konstantin Kabin

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37	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
38	The Influence of IMF <i>B</i> _{<i>y</i>} on the Bow Shock: Observation Result. Journal of Geophysical Research: Space Physics, 2018, 123, 1915-1926.	2.4	8
39	Earth's Bow Shock: A New Threeâ€Dimensional Asymmetric Model With Dipole Tilt Effects. Journal of Geophysical Research: Space Physics, 2019, 124, 5396-5407.	2.4	7
40	Dipole tilt effects on the magnetosphereâ€ionosphere convection system during interplanetary magnetic field <i>B</i> _{<i>Y</i>} â€dominated periods: MHD modeling. Journal of Geophysical Research, 2010, 115, .	3.3	6
41	Modeling the relationship between substorm dipolarization and dispersionless injection. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	6
42	Motion of a charged particle in an axisymmetric longitudinal magnetic field that is inversely proportional to the radius. Computer Physics Communications, 2015, 189, 155-161.	7.5	6
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	Mercury redux. Nature Geoscience, 2008, 1, 564-564.	12.9	4
45	Faraday Rotation of Automatic Dependent Surveillanceâ€Broadcast (ADSâ€B) Signals as a Method of Ionospheric Characterization. Radio Science, 2017, 52, 1293-1300.	1.6	4
46	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
47	Exact Evaluation of Collision Integrals for the Nonlinear Boltzmann Equation. AIP Conference Proceedings, 2003, , .	0.4	3
48	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
49	Physicsâ€Based Analytical Model of the Planetary Bow Shock Position and Shape. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029104.	2.4	3
50	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
51	Adiabatic invariant of a charged particle moving in a magnetic field with a constant gradient. Physics of Plasmas, 2021, 28, .	1.9	3
52	Excitation and steepening of ionâ€acoustic waves in the ionospheric Alfvén resonator. Journal of Geophysical Research, 2010, 115, .	3.3	2
53	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
54	POLARIZATION PROPERTIES OF THE ULTRA-LOW FREQUENCY WAVES IN NON-AXISYMMETRIC BACKGROUND MAGNETIC FIELDS. , 2009, , 225-235.		2

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55	lon 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. Journal of Plasma Physics, 2015, 81, .	2.1	1
56	SPATIAL DISTRIBUTION AND ENERGY SPECTRUM OF HEAVY IONS IN THE HERMEAN MAGNETOSPHERE WITH APPLICATIONS TO MESSENGER FLYBYS. , 2009, , 1-16.		1
57	ANALYTICAL MODEL OF THE PLANETARY BOW SHOCK FOR VARIOUS MAGNETIC FIELD DIRECTIONS BASED ON MHD CALCULATIONS. SolneÄno-zemnaâ Fizika, 2020, 6, 44-49.	0.9	1
58	Epicycloid fits to trajectories of particles confined to the equatorial plane of a magnetic dipole. Physics of Plasmas, 2021, 28, 102505.	1.9	1