

Robert Rankin

List of Publications by Year in descending order

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174
papers

3,669
citations

109264

35
h-index

197736

49
g-index

181
all docs

181
docs citations

181
times ranked

1835
citing authors

#	ARTICLE	IF	CITATIONS
1	The interaction of ultra-low-frequency pc3-5 waves with charged particles in Earth's magnetosphere. <i>Reviews of Modern Plasma Physics</i> , 2017, 1, 1.	2.2	121
2	Discovery of the action of a geophysical synchrotron in the Earth's Van Allen radiation belts. <i>Nature Communications</i> , 2013, 4, .	5.8	104
3	Coherent XUV Generation from Gases Ionized by Several Cycle Optical Pulses. <i>Physical Review Letters</i> , 1997, 79, 2971-2974.	2.9	98
4	Spectral and temporal structure in high harmonic emission from ionizing atomic gases. <i>Physical Review A</i> , 1995, 52, R4336-R4339.	1.0	95
5	Refraction effects associated with multiphoton ionization and ultrashort-pulse laser propagation in plasma waveguides. <i>Optics Letters</i> , 1991, 16, 835.	1.7	78
6	Coupling of shear flow and pressure gradient instabilities. <i>Journal of Geophysical Research</i> , 1997, 102, 9639-9650.	3.3	78
7	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
8	Parallel electric fields in dispersive shear Alfvén waves in the dipolar magnetosphere. <i>Geophysical Research Letters</i> , 1999, 26, 3601-3604.	1.5	65
9	Electron Trapping in Shear Alfvén Waves that Power the Aurora. <i>Physical Review Letters</i> , 2009, 102, 045002.	2.9	63
10	The nonlinear evolution of field line resonances in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 5839-5853.	3.3	58
11	Charged particle behavior in the growth and damping stages of ultralow frequency waves: Theory and Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3254-3263.	0.8	55
12	Auroral density fluctuations on dispersive field line resonances. <i>Journal of Geophysical Research</i> , 1999, 104, 4399-4410.	3.3	53
13	Self-consistent electron acceleration due to inertial Alfvén wave pulses. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	53
14	Relativistic electron dynamics produced by azimuthally localized poloidal mode ULF waves: Boomerang-shaped pitch angle evolutions. <i>Geophysical Research Letters</i> , 2017, 44, 7618-7627.	1.5	53
15	Global-Scale ULF Waves Associated With SSC Accelerate Magnetospheric Ultrarelativistic Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1525-1538.	0.8	48
16	Alfvénic field line resonances in arbitrary magnetic field topology. <i>Advances in Space Research</i> , 2006, 38, 1720-1729.	1.2	47
17	Modeling ULF waves in a compressed dipole magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	47
18	Control of ULF Wave Accessibility to the Inner Magnetosphere by the Convection of Plasma Density. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1086-1099.	0.8	47

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19	Electron inertial effects on geomagnetic field line resonances. <i>Journal of Geophysical Research</i> , 1994, 99, 11265.	3.3	46
20	Shear Alfvén waves on stretched magnetic field lines near midnight in Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2000, 27, 3265-3268.	1.5	46
21	Characterization of ULF pulsations by THEMIS. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	46
22	Electron trapping and acceleration by kinetic Alfvén waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,305.	0.8	46
23	Optical signatures of auroral arcs produced by field line resonances: comparison with satellite observations and modeling. <i>Annales Geophysicae</i> , 2003, 21, 933-945.	0.6	45
24	Open-closed field line boundary position: A parametric study using an MHD model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	43
25	Kinetic simulations of electron response to shear Alfvén waves in magnetospheric plasmas. <i>Physics of Plasmas</i> , 2004, 11, 1277-1284.	0.7	41
26	Nonlinear standing shear Alfvén waves in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 21291.	3.3	40
27	Charged particle behavior in localized ultralow frequency waves: Theory and observations. <i>Geophysical Research Letters</i> , 2017, 44, 5900-5908.	1.5	40
28	Electron kinetic effects in standing shear Alfvén waves in the dipolar magnetosphere. <i>Physics of Plasmas</i> , 2000, 7, 2630-2645.	0.7	38
29	The effect of ULF compressional modes and field line resonances on relativistic electron dynamics. <i>Planetary and Space Science</i> , 2007, 55, 731-742.	0.9	38
30	Nonlinear dynamics of standing shear Alfvén waves. <i>Physics of Plasmas</i> , 1995, 2, 501-515.	0.7	37
31	Ponderomotive saturation of magnetospheric field line resonances. <i>Geophysical Research Letters</i> , 1995, 22, 1741-1744.	1.5	37
32	Inertial Alfvén waves and acceleration of electrons in nonuniform magnetic fields. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	37
33	Nonlinear field line resonances: Dispersive effects. <i>Physics of Plasmas</i> , 1998, 5, 3565-3574.	0.7	36
34	Internal reconnection for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	36
35	THEMIS observations of the spatial extent and pressure pulse excitation of field line resonances. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	36
36	Discrete Auroral Arcs and Nonlinear Dispersive Field Line Resonances. <i>Geophysical Research Letters</i> , 1999, 26, 663-666.	1.5	35

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37	Comparison of photometer and global MHD determination of the open-closed field line boundary. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
38	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019, 10, 1040.	5.8	35
39	Polarization properties of standing shear Alfvén waves in non-axisymmetric background magnetic fields. <i>Annales Geophysicae</i> , 2007, 25, 815-822.	0.6	35
40	Magnetospheric field-line resonances: Ground-based observations and modeling. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	34
41	Dawn-dusk asymmetry in the Kelvin-Helmholtz instability at Mercury. <i>Nature Communications</i> , 2013, 4, 1645.	5.8	34
42	Interaction of ULF waves with different ion species: Pitch angle and phase space density implications. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9459-9472.	0.8	34
43	Raman and two-plasmon decay instabilities in a magnetized plasma. <i>Physics of Fluids</i> , 1984, 27, 2730.	1.4	33
44	Do magnetospheric shear Alfvén waves generate sufficient electron energy flux to power the aurora?. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
45	Parallel potential driven by a kinetic Alfvén wave on geomagnetic field lines. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 11-1.	3.3	32
46	Global MHD modeling of Mercury's magnetosphere with applications to the MESSENGER mission and dynamo theory. <i>Icarus</i> , 2008, 195, 1-15.	1.1	31
47	Finite element modeling of nonlinear dispersive field line resonances: Trapped shear Alfvén waves inside field-aligned density structures. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	29
48	Low-Energy (<200 eV) Electron Acceleration by ULF Waves in the Plasmaspheric Boundary Layer: Van Allen Probes Observation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9969-9982.	0.8	28
49	Simulations of driven field line resonances in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 21341-21352.	3.3	27
50	Confirmation of quasi-perpendicular shock reformation in two-dimensional hybrid simulations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	24
51	Electron dropout echoes induced by interplanetary shock: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2016, 43, 5597-5605.	1.5	24
52	Van Allen Probes Observation of a Fundamental Poloidal Standing Alfvén Wave Event Related to Giant Pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4574-4593.	0.8	24
53	Resonant drift echoes in electron phase space density produced by dayside Pc5 waves following a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	23
54	Ultralow-frequency modulation of whistler-mode wave growth. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	23

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55	Field line resonances as a trigger and a tracer for substorm onset. Journal of Geophysical Research: Space Physics, 2014, 119, 5343-5363.	0.8	23
56	Nonlinear acceleration of dispersive effects in field line resonances. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	22
57	Electron acceleration due to inertial Alfvén waves in a non-Maxwellian plasma. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	22
58	Origin of the interhemispheric potential mismatch of merging cells for interplanetary magnetic field dominated periods. Journal of Geophysical Research, 2007, 112, .	3.3	22
59	Modeling radiation belt electron acceleration by ULF fast mode waves, launched by solar wind dynamic pressure fluctuations. Journal of Geophysical Research: Space Physics, 2014, 119, 8916-8928.	0.8	22
60	Phase relationship between ULF waves and drift-bounce resonant ions: A statistical study. Journal of Geophysical Research: Space Physics, 2017, 122, 7087-7096.	0.8	22
61	Dynamic response of Earth's magnetosphere to reversals. Journal of Geophysical Research, 2003, 108, .	3.3	21
62	Electrodynamics of magnetosphere-ionosphere coupling and feedback on magnetospheric field line resonances. Journal of Geophysical Research, 2007, 112, .	3.3	21
63	The Coupling of Solar Wind Energy to MHD Cavity Modes, Waveguide Modes, and Field Line Resonances in the Earth's Magnetosphere. Geophysical Monograph Series, 0, , 253-264.	0.1	21
64	Poloidal Mode Wave-Particle Interactions Inferred From Van Allen Probes and CARISMA Ground-Based Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 4652-4667.	0.8	21
65	A Comparative Study of ULF Waves' Role in the Dynamics of Charged Particles in the Plasmasphere: Van Allen Probes Observation. Journal of Geophysical Research: Space Physics, 2018, 123, 5334-5343.	0.8	21
66	Cold Plasmaspheric Electrons Affected by ULF Waves in the Inner Magnetosphere: A Van Allen Probes Statistical Study. Journal of Geophysical Research: Space Physics, 2019, 124, 7954-7965.	0.8	21
67	Spatiotemporal characteristics of ultra-low frequency dispersive scale shear Alfvén waves in the Earth's magnetosphere. Physics of Plasmas, 2004, 11, 1268-1276.	0.7	20
68	Primary and secondary compressible Kelvin-Helmholtz surface wave instabilities on the Earth's magnetopause. Journal of Geophysical Research: Space Physics, 2013, 118, 4161-4175.	0.8	20
69	Nonlinear Drift Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. Geophysical Research Letters, 2018, 45, 8773-8782.	1.5	20
70	Self-focusing and ion wave generation in laser-produced plasmas. Physics of Fluids, 1988, 31, 2327.	1.4	19
71	Theory of dispersive shear Alfvén wave focusing in Earth's magnetosphere. Geophysical Research Letters, 2005, 32, .	1.5	19
72	Nonlinear effects in the ionospheric Alfvén resonator. Journal of Geophysical Research, 2008, 113, .	3.3	19

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73	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
74	Structure and evolution of electron "zebra stripes" in the inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4145-4157.	0.8	19
75	Alfvén Wave Acceleration of Auroral Electrons in Warm Magnetospheric Plasma. <i>Geophysical Monograph Series</i> , 2013, , 251-260.	0.1	18
76	Self-consistent wave-particle interactions in dispersive scale long-period field-line resonances. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	17
77	Kelvin-Helmholtz unstable magnetotail flow channels: Deceleration and radiation of MHD waves. <i>Geophysical Research Letters</i> , 2014, 41, 3691-3697.	1.5	17
78	Raman Backscatter from an Inhomogeneous Magnetized Plasma. <i>Physical Review Letters</i> , 1984, 53, 462-464.	2.9	16
79	Shear flow instability in the dipolar magnetosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 17323-17334.	3.3	16
80	Field line resonances in a stretched magnetotail: CANOPUS optical and magnetometer observations. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 9-1.	3.3	16
81	The outer radiation belt injection, transport, acceleration and loss satellite (ORBITALS): A canadian small satellite mission for ILWS. <i>Advances in Space Research</i> , 2006, 38, 1838-1860.	1.2	16
82	Electromagnetic waves generated by ionospheric feedback instability. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
83	Sodium ion exosphere of Mercury during MESSENGER flybys. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	16
84	Constructing the frequency and wave normal distribution of whistler-mode wave power. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1984-1991.	0.8	16
85	A Statistical Survey of the 630.0nm Optical Signature of Periodic Auroral Arcs Resulting From Magnetospheric Field Line Resonances. <i>Geophysical Research Letters</i> , 2018, 45, 4648-4655.	1.5	16
86	Drift-Bounce Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027067.	0.8	16
87	Diffraction and the evolution of small scale filaments in a laser-produced plasma. <i>Physical Review Letters</i> , 1989, 63, 1597-1600.	2.9	15
88	Magnetospheric convection and magnetopause shadowing effects in ULF wave-driven energetic electron transport. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2919-2927.	0.8	15
89	Fast damping of ultralow frequency waves excited by interplanetary shocks in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2438-2451.	0.8	15
90	Numerical simulations and simplified models of nonlinear electron inertial Alfvén waves. <i>Journal of Geophysical Research</i> , 1998, 103, 20419-20433.	3.3	14

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91	Electron acceleration and parallel electric fields due to kinetic Alfvén waves in plasma with similar thermal and Alfvén speeds. <i>Advances in Space Research</i> , 2008, 42, 964-969.	1.2	14
92	Compressional ULF wave modulation of energetic particles in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6262-6276.	0.8	14
93	Shear flow vortices in magnetospheric plasmas. <i>Physics of Plasmas</i> , 1997, 4, 829-840.	0.7	13
94	Different eigenproblem models for field line resonances in cold plasma: Effect on magnetospheric density estimates. <i>Planetary and Space Science</i> , 2007, 55, 820-828.	0.9	13
95	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
96	The stabilizing effect of collision-induced velocity shear on the ionospheric feedback instability in Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2017, 44, 6534-6542.	1.5	13
97	Self-consistent kinetic model of nested electron- and ion-scale magnetic cavities in space plasmas. <i>Nature Communications</i> , 2020, 11, 5616.	5.8	13
98	Drift Resonance Between Particles and Compressional Toroidal ULF Waves in Dipole Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028842.	0.8	13
99	The Transport of Charged Particles in a Flowing Medium. <i>Astrophysical Journal</i> , 2002, 576, 574-586.	1.6	12
100	Convective and diffusive ULF wave driven radiation belt electron transport. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	12
101	Enhanced N ₂ and O ₂ densities inferred from EISCAT observations of Pc5 waves and associated electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 549-566.	0.8	12
102	New Magnetospheric Substorm Injection Monitor: Image Electron Spectrometer On Board a Chinese Navigation IGSO Satellite. <i>Space Weather</i> , 2018, 16, 121-125.	1.3	12
103	Alteration of Particle Drift Resonance Dynamics Near Poloidal Mode Field Line Resonance Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7385-7401.	0.8	12
104	Simultaneous Observations of Localized and Global Drift Resonance. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088019.	1.5	12
105	Observational evidence of ring current in the magnetosphere of Mercury. <i>Nature Communications</i> , 2022, 13, 924.	5.8	12
106	Simulation of O ⁺ upflows created by electron precipitation and Alfvén waves in the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5562-5578.	0.8	11
107	Electron trapping and acceleration by kinetic Alfvén waves in solar flares. <i>Astronomy and Astrophysics</i> , 2016, 589, A101.	2.1	11
108	Corotating drift-bounce resonance of plasmaspheric electron with poloidal ULF waves. <i>Earth and Planetary Physics</i> , 2017, 1, 2-12.	0.4	11

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109	Novel EMIC Wave Propagation Pathway Through Buchsbaum Resonance and Inter-Hemispheric Wave Interference: Swarm Observations and Modeling. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	11
110	Nonlinear Wave Growth Analysis of Chorus Emissions Modulated by ULF Waves. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	11
111	Nonlinear shear Alfvén resonances in a dipolar magnetic field. <i>Journal of Geophysical Research</i> , 1997, 102, 27137-27143.	3.3	10
112	Nonlinear Landau resonance with localized wave pulses. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5519-5527.	0.8	10
113	Small-Scale Dynamic Aurora. <i>Space Science Reviews</i> , 2021, 217, 17.	3.7	10
114	Diffraction, self-focusing, and the geometrical optics limit in laser produced plasmas. <i>Physics of Fluids</i> , 1987, 30, 1521.	1.4	9
115	Precipitation and nonlinear effects in geomagnetic field line resonances. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	9
116	Quiet, Discrete Auroral Arcs: Acceleration Mechanisms. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	9
117	On the Relationship Between Shear Alfvén Waves, Auroral Electron Acceleration, and Field Line Resonances. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	9
118	Phase-matched frequency conversion in ionizing atomic gases. <i>Physical Review A</i> , 1996, 54, R1026-R1029.	1.0	8
119	Nonlinear electron heating by resonant shear Alfvén waves in the ionosphere. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	8
120	Effects of the magnetic field model and wave polarisation on the estimation of proton number densities in the magnetosphere using field line resonances. <i>Planetary and Space Science</i> , 2007, 55, 809-819.	0.9	8
121	Diffusion and equilibration in 2D fluid codes. <i>Computer Physics Communications</i> , 1986, 41, 21-34.	3.0	7
122	Parallel electric fields associated with inertial Alfvén waves. <i>Planetary and Space Science</i> , 2007, 55, 714-721.	0.9	7
123	Whistler mode wave growth and propagation in the prenoon magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
124	SuperDARN observations of the driver wave associated with FLRs. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
125	Auroral substorm dynamics and field line resonances. <i>Earth, Planets and Space</i> , 2002, 54, 927-932.	0.9	6
126	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

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127	Modeling the relationship between substorm dipolarization and dispersionless injection. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	6
128	Traveling Ultralow-Frequency Waves and Their Influences Over Low-Energy, Charged Particles. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3848-3858.	0.8	6
129	A Short-lived Three-Belt Structure for sub-MeV Electrons in the Van Allen Belts: Time Scale and Energy Dependence. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028031.	0.8	6
130	Inverse resonance absorption in an inhomogeneous magnetized plasma. <i>Physics of Fluids</i> , 1985, 28, 16-18.	1.4	5
131	Theoretical aspects of kinetic and inertial scale dispersive Alfvén waves in Earth's magnetosphere. <i>Geophysical Monograph Series</i> , 2006, , 91-108.	0.1	5
132	Global auroral imaging in the ILWS era. <i>Advances in Space Research</i> , 2007, 40, 409-418.	1.2	5
133	Simulation of ionospheric disturbances created by Alfvén waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	5
134	Pitch Angle Phase Shift in Ring Current Ions Interacting With Ultra-Low-Frequency Waves: Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029025.	0.8	5
135	Origin of some anisotropic tailward flows in the plasma sheet. <i>Annales Geophysicae</i> , 2002, 20, 1559-1575.	0.6	5
136	Kinetic theory of stimulated Raman scattering from a magnetized plasma. <i>Journal of Plasma Physics</i> , 1985, 33, 303-319.	0.7	4
137	Numerical simulations of charge state distribution from a KrF laser-produced plasma. <i>Physics of Fluids B</i> , 1993, 5, 4115-4122.	1.7	4
138	Dispersive shear Alfvén waves on model Tsyganenko magnetic field lines. <i>Advances in Space Research</i> , 2001, 28, 1595-1604.	1.2	4
139	Role of ionospheric effects and plasma sheet dynamics in the formation of auroral arcs. <i>Space Science Reviews</i> , 2001, 95, 513-537.	3.7	4
140	DK-1D: a drift-kinetic simulation tool for modelling the shear Alfvén wave and its interaction with collisionless plasma. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074008.	0.9	4
141	Effects of shock parameters on upstream energetic electron burst events. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	4
142	Roles of Magnetospheric Convection on Nonlinear Drift Resonance Between Electrons and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027787.	0.8	4
143	Origin of Frequency-Doubling and Shoulder-Like Magnetic Pulsations in ULF Waves. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096532.	1.5	4
144	Stability of electron inertia Alfvén solitons. <i>Journal of Plasma Physics</i> , 1992, 48, 335-343.	0.7	3

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145	Reply to comment by J.-P. St.-Maurice on "Nonlinear electron heating by resonant shear Alfvén waves in the ionosphere" Geophysical Research Letters, 2005, 32, .	1.5	3
146	Field Line Resonances, Auroral Arcs, and Substorm Intensifications. Geophysical Monograph Series, 2013, , 161-168.	0.1	3
147	Properties of the lunar wake predicted by analytic models and hybrid kinetic simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 3795-3803.	0.8	3
148	Upper limit of electron fluxes generated by kinetic Alfvén waves in Maxwellian plasma. Journal of Geophysical Research: Space Physics, 2016, 121, 8361-8373.	0.8	3
149	Kinetic theory of stimulated Raman sidescattering from magnetized plasmas. Physics of Fluids, 1985, 28, 3380.	1.4	2
150	Finite Larmor radius effects in stimulated Raman scattering. Physics of Fluids, 1985, 28, 1193.	1.4	2
151	Numerical simulations of induced spatial incoherence laser light self-focusing. Physics of Fluids B, 1989, 1, 2437-2449.	1.7	2
152	Nonlinear field line resonances. Effect of Hall term on plasma compression: 1D Hall-MHD modeling. Planetary and Space Science, 2009, 57, 404-414.	0.9	2
153	Comment on "Role of dispersive Alfvén waves in generating parallel electric fields along the Io-Jupiter fluxtube" by S. T. Jones and Y. Su. Journal of Geophysical Research, 2009, 114, .	3.3	2
154	Excitation and steepening of ion-acoustic waves in the ionospheric Alfvén resonator. Journal of Geophysical Research, 2010, 115, .	3.3	2
155	Space Science Informatics: A Canadian Approach. Eos, 2011, 92, 61-62.	0.1	2
156	Emission of magnetosound from MHD-unstable shear flow boundaries. Journal of Geophysical Research: Space Physics, 2016, 121, 8740-8754.	0.8	2
157	POLARIZATION PROPERTIES OF THE ULTRA-LOW FREQUENCY WAVES IN NON-AXISYMMETRIC BACKGROUND MAGNETIC FIELDS. , 2009, , 225-235.		2
158	Magnetic storms in Mercury's magnetosphere. Science China Technological Sciences, 0, , 1.	2.0	2
159	Stimulated raman side scattering from magnetized plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 105, 218-220.	0.9	1
160	Theory of Raman sidescatter from a magnetized plasma. Journal of Plasma Physics, 1984, 32, 331-346.	0.7	1
161	Linear and nonlinear dispersive effects on magnetospheric field line resonances. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2001, 26, 121-131.	0.2	1
162	Simulation of bounce resonance ULF wave-particle interactions. , 2016, , .		1

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163	SPATIAL DISTRIBUTION AND ENERGY SPECTRUM OF HEAVY IONS IN THE HERMEAN MAGNETOSPHERE WITH APPLICATIONS TO MESSENGER FLYBYS. , 2009, , 1-16.		1
164	Alternating Direction Implicit Methods on Distributed and Shared Memory Parallel Computers. , 1998, , 59-69.		1
165	Transient ionization time scales for low atomic number elements. Computer Physics Communications, 1985, 38, 359-363.	3.0	0
166	A simple algorithm for the solution of two-dimensional diffusion equations. Journal of Physics A, 1986, 19, L579-L584.	1.6	0
167	The role of space-time dependent ionospheric conductivity in the evolution of field line resonances: Relation to auroral arc. Geophysical Monograph Series, 2000, , 165-172.	0.1	0
168	Preface: Magnetospheric ULF wave modes and auroral acceleration processes. Physics of Plasmas, 2004, 11, 1248-1249.	0.7	0
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