

J R Johnson

List of Publications by Year in descending order

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94
papers

3,056
citations

159525

30
h-index

182361

51
g-index

104
all docs

104
docs citations

104
times ranked

2061
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic Alfvén waves and plasma transport at the magnetopause. <i>Geophysical Research Letters</i> , 1997, 24, 1423-1426.	1.5	187
2	The Jovian Auroral Distributions Experiment (JADE) on the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 547-643.	3.7	187
3	Stochastic ion heating at the magnetopause due to kinetic Alfvén waves. <i>Geophysical Research Letters</i> , 2001, 28, 4421-4424.	1.5	143
4	Dawn-dusk asymmetries, ion spectra, and sources in the northward interplanetary magnetic field plasma sheet. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	118
5	Kp forecast models. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	109
6	Kelvin Helmholtz Instability in Planetary Magnetospheres. <i>Space Science Reviews</i> , 2014, 184, 1-31.	3.7	90
7	Kinetic Alfvén waves as a source of plasma transport at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1994, 99, 17405.	3.3	88
8	Kinetic Alfvén Wave Turbulence and Transport through a Reconnection Diffusion Region. <i>Physical Review Letters</i> , 2009, 102, 015001.	2.9	87
9	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. <i>Space Science Reviews</i> , 2014, 184, 33-86.	3.7	82
10	Information theoretical approach to discovering solar wind drivers of the outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9378-9399.	0.8	79
11	Small-scale, dispersive field line resonances in the hot magnetospheric plasma. <i>Journal of Geophysical Research</i> , 1998, 103, 26559-26572.	3.3	76
12	Signatures of mode conversion and kinetic Alfvén waves at the magnetopause. <i>Geophysical Research Letters</i> , 2001, 28, 227-230.	1.5	74
13	Particle transport and energization associated with substorms. <i>Journal of Geophysical Research</i> , 2000, 105, 18741-18752.	3.3	70
14	Two-dimensional hybrid code simulation of electromagnetic ion cyclotron waves of multi-ion plasmas in a dipole magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
15	A kinetic-fluid model. <i>Journal of Geophysical Research</i> , 1999, 104, 413-427.	3.3	60
16	Can Ion Cyclotron Waves Propagate to the Ground?. <i>Geophysical Research Letters</i> , 1999, 26, 671-674.	1.5	60
17	Auroral particle precipitation characterized by the substorm cycle. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1022-1039.	0.8	59
18	Three-Dimensional Mode Conversion Associated with Kinetic Alfvén Waves. <i>Physical Review Letters</i> , 2012, 109, 125003.	2.9	54

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19	Full-wave modeling of EMIC waves near the He ⁺ gyrofrequency. Geophysical Research Letters, 2016, 43, 13-21.	1.5	53
20	Cluster observations of Pc 1 ⁺ waves and associated ion distributions during the October and November 2003 magnetic storms. Planetary and Space Science, 2007, 55, 829-848.	0.9	45
21	A solar cycle dependence of nonlinearity in magnetospheric activity. Journal of Geophysical Research, 2005, 110, .	3.3	44
22	Northward interplanetary magnetic field plasma sheet entropies. Journal of Geophysical Research, 2009, 114, .	3.3	44
23	Timescale for the formation of the cold-dense plasma sheet: A case study. Geophysical Research Letters, 2006, 33, .	1.5	41
24	Ion temperature effects on magnetotail Alfvén wave propagation and electron energization. Journal of Geophysical Research: Space Physics, 2015, 120, 5623-5632.	0.8	39
25	Global structure of mirror modes in the magnetosheath. Journal of Geophysical Research, 1997, 102, 7179-7189.	3.3	37
26	Kinetic Simulations of Electron Acceleration by Dispersive Scale Alfvén Waves in Jupiter's Magnetosphere. Geophysical Research Letters, 2019, 46, 3043-3051.	1.5	36
27	Formation and transport of entropy structures in the magnetotail simulated with a 3D global hybrid code. Geophysical Research Letters, 2017, 44, 5892-5899.	1.5	35
28	A study of mode conversion in an oxygen-hydrogen plasma. Physics of Plasmas, 1995, 2, 1274-1284.	0.7	32
29	Hybrid simulation of mode conversion at the magnetopause. Journal of Geophysical Research, 2010, 115, .	3.3	32
30	Effects of heavy ions on ULF wave resonances near the equatorial region. Journal of Geophysical Research, 2008, 113, .	3.3	31
31	Ion gyroradius effects on particle trapping in kinetic Alfvén waves along auroral field lines. Journal of Geophysical Research: Space Physics, 2016, 121, 10,831.	0.8	31
32	Applications of Information Theory in Solar and Space Physics. Entropy, 2019, 21, 140.	1.1	31
33	External versus internal triggering of substorms: An information-theoretical approach. Geophysical Research Letters, 2014, 41, 5748-5754.	1.5	30
34	The dependence of the strength and thickness of field-aligned currents on solar wind and ionospheric parameters. Journal of Geophysical Research: Space Physics, 2015, 120, 3987-4008.	0.8	29
35	Equatorially generated ULF waves as a source for the turbulence associated with ion conics. Geophysical Research Letters, 1989, 16, 1469-1472.	1.5	26
36	Kinetic Alfvén waves in three-dimensional magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 6526-6548.	0.8	26

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37	Kinetic Alfvén Waves From Magnetotail to the Ionosphere in Global Hybrid Simulation Associated With Fast Flows. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027062.	0.8	26
38	Electron acceleration in a geomagnetic Field Line Resonance. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	25
39	Mirror mode structures in the asymmetric Hermean magnetosheath: Hybrid simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 405-417.	0.8	25
40	Substorm entropies. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
41	Nonlinear vortex structures with diverging electric fields and their relation to the black aurora. <i>Geophysical Research Letters</i> , 1995, 22, 1481-1484.	1.5	23
42	Substorm plasma sheet ion pressure profiles. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	23
43	Inferring magnetospheric heavy ion density using EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6464-6473.	0.8	22
44	Information Theoretic Approach to Discovering Causalities in the Solar Cycle. <i>Astrophysical Journal</i> , 2018, 854, 85.	1.6	22
45	Do solar cycles influence giant cell arteritis and rheumatoid arthritis incidence?. <i>BMJ Open</i> , 2015, 5, e006636-e006636.	0.8	21
46	Resonant absorption of ULF waves at Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
47	Transfer entropy and cumulant-based cost as measures of nonlinear causal relationships in space plasmas: applications to $\text{D}_{\text{sub}}^{\text{st}}$. <i>Annales Geophysicae</i> , 2018, 36, 945-952.	0.6	20
48	Introduction to special section on Entropy Properties and Constraints Related to Space Plasma Transport. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
49	Modification of the loss cone for energetic particles. <i>Geophysical Research Letters</i> , 2014, 41, 8107-8113.	1.5	19
50	Global modeling of ULF waves at Mercury. <i>Geophysical Research Letters</i> , 2015, 42, 5147-5154.	1.5	19
51	Ion acceleration and heating by kinetic Alfvén waves associated with magnetic reconnection. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	19
52	Electron Distributions in Kinetic Scale Field Line Resonances: A Comparison of Simulations and Observations. <i>Geophysical Research Letters</i> , 2018, 45, 5826-5835.	1.5	19
53	ULF wave absorption at Mercury. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	16
54	Solar wind driving of dayside field-aligned currents. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16

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55	Theory and observations of upward field-aligned currents at the magnetopause boundary layer. <i>Geophysical Research Letters</i> , 2015, 42, 9149-9155.	1.5	16
56	Linear mode conversion of Langmuir/z-mode waves to radiation in plasmas with various magnetic field strength. <i>Physics of Plasmas</i> , 2013, 20, 122103.	0.7	15
57	Field-Aligned Currents in Auroral Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028583.	0.8	15
58	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	0.8	15
59	Untangling the Solar Wind and Magnetospheric Drivers of the Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	15
60	Field-line resonance structures in Mercury's multi-ion magnetosphere. <i>Earth, Planets and Space</i> , 2013, 65, 447-451.	0.9	14
61	On the field-aligned electric field in the polar cap. <i>Geophysical Research Letters</i> , 2015, 42, 5090-5099.	1.5	13
62	Gyrokinetic particle simulation of nonlinear evolution of mirror instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7211-7218.	0.8	12
63	Identifying Active Kelvin-Helmholtz Vortices on Saturn's Magnetopause Boundary. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084206.	1.5	12
64	Periodic Narrowband Radio Wave Emissions and Inward Plasma Transport at Saturn's Magnetosphere. <i>Astronomical Journal</i> , 2020, 159, 249.	1.9	12
65	Kelvin-Helmholtz-Related Turbulent Heating at Saturn's Magnetopause Boundary. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028479.	0.8	12
66	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028922.	0.8	10
67	Linear dispersion relation for the mirror instability in context of the gyrokinetic theory. <i>Physics of Plasmas</i> , 2013, 20, 104501.	0.7	9
68	Effect of Field-Line Curvature on the Ionospheric Accessibility of Relativistic Electron Beam Experiments. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	9
69	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Dusk-side, High-Latitude Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092466.	1.5	9
70	Mirror force induced wave dispersion in Alfvén waves. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	8
71	Electron Inertial Effects on Linearly Polarized Electromagnetic Ion Cyclotron Waves at Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2643-2655.	0.8	8
72	Information Theoretical Approach to Understanding Flare Waiting Times. <i>Astrophysical Journal</i> , 2020, 899, 148.	1.6	8

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73	Localization of Ultra-Low Frequency Waves in Multi-Ion Plasmas of the Planetary Magnetosphere. <i>Journal of Astronomy and Space Sciences</i> , 2015, 32, 289-295.	0.3	8
74	Cluster observations of band-limited Pc 1 waves associated with streaming H ⁺ and O ⁺ ions in the high-altitude plasma mantle. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
75	Electron Energization by Parallel Electric Fields in Poloidal Standing Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6691-6700.	0.8	7
76	The Solar Memory from Hours to Decades. <i>Astrophysical Journal</i> , 2021, 921, 82.	1.6	7
77	The Poissonian Origin of Power Laws in Solar Flare Waiting Time Distributions. <i>Astrophysical Journal</i> , 2021, 921, 166.	1.6	7
78	Waves in Space Plasmas. <i>AIP Conference Proceedings</i> , 2009, , .	0.3	6
79	An Information-Theoretical Approach to Space Weather. , 2018, , 45-69.		6
80	Statistical Study of EMIC Wave Propagation Using Space-Ground Conjugate Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
81	Comment on "Mode Conversion of Waves in the Ion-Cyclotron Frequency Range in Magnetospheric Plasmas". <i>Physical Review Letters</i> , 2014, 113, 089501.	2.9	5
82	Narrow-band extremely low frequency (ELF) wave phenomena observed at South Pole Station. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	4
83	Multi-Spacecraft Observations of Fluctuations Occurring Along the Dusk Flank Magnetopause, and Testing the Connection to an Observed Ionospheric Bead. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	4
84	Kinetic Alfvén waves at the magnetopause mode conversion, transport and formation of LLBL. <i>Geophysical Monograph Series</i> , 2003, , 211-221.	0.1	3
85	On the propagation and mode conversion of auroral medium frequency bursts. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1706-1721.	0.8	3
86	Untangling the Solar Wind Drivers of the Radiation Belt: An Information Theoretical Approach. , 2018, , 149-175.		3
87	Role of the Solar Minimum in the Waiting Time Distribution Throughout the Heliosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094348.	1.5	3
88	Coupling Between Alfvén Wave and Kelvin-Helmholtz Waves in the Low Latitude Boundary Layer. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	1.1	3
89	Conductivity tensor for anisotropic plasma in gyrokinetic theory. <i>Physics of Plasmas</i> , 2017, 24, 052121.	0.7	2
90	The Kelvin-Helmholtz Instability From the Perspective of Hybrid Simulations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2

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91	Electron Energization Signatures in Traveling Kinetic Alfvén Waves at Storm Time Injection Fronts. Geophysical Research Letters, 2022, 49, .	1.5	2
92	Field-aligned currents during the extreme solar minimum between the solar cycles 23 and 24. Journal of Geophysical Research: Space Physics, 2014, 119, 2466-2475.	0.8	1
93	Method for Approximating Field-Line Curves Using Ionospheric Observations of Energy-Variable Electron Beams Launched From Satellites. Frontiers in Astronomy and Space Sciences, 2019, 6, .	1.1	1
94	Imaging the plasma sheet from ionospheric observations. , 2022, , 341-357.		0