

R E Denton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

5,115
citations

36
h-index

68
g-index

145
ext. papers

5,569
ext. citations

3.2
avg, IF

5.25
L-index

#	Paper	IF	Citations
132	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. <i>Physics of Plasmas</i> , 2022 , 29, 012905	2.1	2
131	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022 , 29, 052903	2.1	1
130	Reconstruction of the Electron Diffusion Region With Inertia and Compressibility Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029841	2.6	3
129	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028922	2.6	2
128	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092376	4.9	3
127	Nodal Structure of Toroidal Standing Alfvén Waves and Its Implication for Field Line Mass Density Distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028981	2.6	3
126	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021 , 17, 1056-1065	16.2	6
125	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090089	4.9	5
124	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028705	2.6	7
123	Fast Cross-Scale Energy Transfer During Turbulent Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093524	4.9	5
122	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029678	2.6	1
121	Comparison of Quality Measures for Walén Relation. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028044	2.6	1
120	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027481	2.6	18
119	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020 , 898, 121	4.7	5
118	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027985	2.6	3
117	Two-Dimensional Hybrid Particle-in-Cell Simulations of Magnetosonic Waves in the Dipole Magnetic Field: On a Constant L-Shell. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028414	2.6	4
116	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082	4.9	11

115	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1173-1186	2.6	25
114	MMS Measurements of the Vlasov Equation: Probing the Electron Pressure Divergence Within Thin Current Sheets. <i>Geophysical Research Letters</i> , 2019 , 46, 7862-7872	4.9	11
113	Equatorial Propagation of the Magnetosonic Mode Across the Plasmopause: 2-D PIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4424-4444	2.6	6
112	Pitch Angle Scattering of Sub-MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5610-5626	2.6	26
111	Crossing of Plasma Structures by Spacecraft: A Path Calculator. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10119-10140	2.6	3
110	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 122-138	2.6	16
109	Determining L-M-N Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2274	2.6	20
108	Fast Magnetosonic Waves Observed by Van Allen Probes: Testing Local Wave Excitation Mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 497-512	2.6	24
107	Electromagnetic Ion Cyclotron Wavefields in a Realistic Dipole Field. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1208-1223	2.6	13
106	Imaging the Global Distribution of Plasmaspheric Oxygen. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2078	2.6	10
105	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
104	Test-Particle Simulations of Linear and Nonlinear Interactions Between a 2-D Whistler-Mode Wave Packet and Radiation Belt Electrons. <i>Geophysical Research Letters</i> , 2018 , 45, 5234-5245	4.9	7
103	Artificial Neural Networks for Determining Magnetospheric Conditions 2018 , 279-300		10
102	How Accurately Can We Measure the Reconnection Rate for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9130-9149	2.6	46
101	Equatorial Evolution of the Fast Magnetosonic Mode in the Source Region: Observation-Simulation Comparison of the Preferential Propagation Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9532-9544	2.6	7
100	Quality Measure for the Walb Relation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9979-9990	2.6	4
99	Impulsively Excited Nightside Ultralow Frequency Waves Simultaneously Observed on and off the Magnetic Equator. <i>Geophysical Research Letters</i> , 2018 , 45, 7918-7926	4.9	4
98	Particle-in-Cell Simulations of the Fast Magnetosonic Mode in a Dipole Magnetic Field: 1-D Along the Radial Direction. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7424-7440	2.6	5

97	Location of intense electromagnetic ion cyclotron (EMIC) wave events relative to the plasmopause: Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4064-4088	2.6	37
96	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. <i>Geophysical Research Letters</i> , 2017 , 44, 4566-4574	4.9	20
95	Ion Bernstein instability as a possible source for oxygen ion cyclotron harmonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5449-5465	2.6	12
94	Hybrid fluid-particle simulation of whistler-mode waves in a compressed dipole magnetic field: Implications for dayside high-latitude chorus. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 432-448	2.6	4
93	A neural network model of three-dimensional dynamic electron density in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9183-9197	2.6	30
92	Growth and nonlinear saturation of electromagnetic ion cyclotron waves in multi-ion species magnetospheric plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6469-6484	2.6	8
91	MMS observations of oblique small-scale magnetopause flux ropes near the ion diffusion region during weak guide-field reconnection. <i>Geophysical Research Letters</i> , 2017 , 44, 6517-6524	4.9	10
90	Theory and Modeling for the Magnetospheric Multiscale Mission 2017 , 575-628		
89	Mass density at geostationary orbit and apparent mass refilling. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2962-2975	2.6	4
88	Reconstruction of the electron diffusion region. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4279-4290	2.6	16
87	Reconnection guide field and quadrupolar structure observed by MMS on 16 October 2015 at 1307 UT. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9880-9887	2.6	7
86	Measurement and modeling of the refilling plasmasphere during 2001. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2226-2248	2.6	12
85	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307 UT. <i>Geophysical Research Letters</i> , 2016 , 43, 5589-5596	4.9	28
84	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016 , 199, 577-630		42
83	Solar wind, F10.7, and geomagnetic activity relationship to the equatorial plasma mass density at geosynchronous orbit. <i>Space Weather</i> , 2016 , 14, 1095-1106	3.7	0
82	Day-to-Day Variability of the Quiet-Time Plasmasphere Caused by Thermosphere Winds. <i>Geophysical Monograph Series</i> , 2016 , 235-241	1.1	
81	Study of EMIC wave excitation using direct ion measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2702-2719	2.6	29
80	Validation of plasmasphere electron density reconstructions derived from data on board CHAMP by IMAGE/RPI data. <i>Advances in Space Research</i> , 2015 , 55, 170-183	2.4	8

79	Externally driven plasmaspheric ULF waves observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 526-552	2.6	32
78	Field line distribution of mass density at geostationary orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4409-4422	2.6	6
77	Resonance of relativistic electrons with electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 2015 , 42, 8263-8270	4.9	12
76	One- and two-dimensional hybrid simulations of whistler mode waves in a dipole field. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1908-1923	2.6	5
75	The effect of the thermosphere on quiet time plasmasphere morphology. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5032-5048	2.6	13
74	Reconstruction of gaps in the past history of solar wind parameters. <i>Geophysical Research Letters</i> , 2014 , 41, 2702-2707	4.9	15
73	Evolution of mass density and O ⁺ concentration at geostationary orbit during storm and quiet events. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6417-6431	2.6	18
72	Effect of spatial density variation and O ⁺ concentration on the growth and evolution of electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8372-8395	2.6	45
71	Solar cycle variation of plasma mass density in the outer magnetosphere: Magnetoseismic analysis of toroidal standing Alfvén waves detected by Geotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8338-8356	2.6	19
70	Quiet time equatorial mass density distribution derived from AMPTE/CCE and GOES using the magnetoseismology technique. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6090-6105	2.6	10
69	Effects of cold electron density on the whistler anisotropy instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 765-773	2.6	14
68	Estimating the effects of ionospheric plasma on solar wind/magnetosphere coupling via mass loading of dayside reconnection: Ion-plasma-sheet oxygen, plasmaspheric drainage plumes, and the plasma cloak. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5695-5719	2.6	50
67	Axis and velocity determination for quasi two-dimensional plasma/field structures from Faraday's law: A second look. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2073-2086	2.6	8
66	Test of Shi et al. method to infer the magnetic reconnection geometry from spacecraft data: MHD simulation with guide field and antiparallel kinetic simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
65	Whistler anisotropy instability with a cold electron component: Linear theory. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
64	Magnetospheric electron density long-term (>1 day) refilling rates inferred from passive radio emissions measured by IMAGE RPI during geomagnetically quiet times. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		29
63	Solar cycle dependence of bulk ion composition at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2011 , 116,		24
62	Resistive MHD reconstruction of two-dimensional coherent structures in space. <i>Annales Geophysicae</i> , 2010 , 28, 2113-2125	2	8

61	Solar cycle variation of geosynchronous plasma mass density derived from the frequency of standing Alfvén waves. <i>Journal of Geophysical Research</i> , 2010 , 115,		41
60	Solar wind driving of magnetospheric ULF waves: Field line resonances driven by dynamic pressure fluctuations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		78
59	Test of methods to infer the magnetic reconnection geometry from spacecraft data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		19
58	Multiple harmonic ULF waves in the plasma sheet boundary layer: Instability analysis. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		35
57	Multiple harmonic ULF waves in the plasma sheet boundary layer observed by Cluster. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		19
56	Multipoint observation of fast mode waves trapped in the dayside plasmasphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		29
55	Ion Bernstein instability in the terrestrial magnetosphere: Linear dispersion theory. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		68
54	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, n/a-n/a		57
53	The effect of heat flux on pressure evolution in the magnetosheath. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 1155-1162	2	0
52	Field line distribution of density at $L=4.8$ inferred from observations by CLUSTER. <i>Annales Geophysicae</i> , 2009 , 27, 705-724	2	20
51	Plasmaspheric Density Structures and Dynamics: Properties Observed by the CLUSTER and IMAGE Missions. <i>Space Science Reviews</i> , 2009 , 145, 55-106	7.5	96
50	Augmented Empirical Models of Plasmaspheric Density and Electric Field Using IMAGE and CLUSTER Data. <i>Space Science Reviews</i> , 2009 , 145, 231-261	7.5	32
49	Symmetry boundary conditions. <i>Journal of Computational Physics</i> , 2009 , 228, 4823-4835	4.1	7
48	Two-dimensional hybrid code simulation of electromagnetic ion cyclotron waves in a dipole magnetic field. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		59
47	Magnetic field line curvature induced pitch angle diffusion in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		33
46	Ion composition in the plasma trough and plasma plume derived from a Combined Release and Radiation Effects Satellite magnetoseismic study. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		31
45	Effect of the radial boundary condition on Alfvén wave dynamics in reduced magnetohydrodynamics. <i>Physics of Plasmas</i> , 2008 , 15, 032106	2.1	2
44	Nonlinear finite-Larmor-radius effects in reduced fluid models. <i>Physics of Plasmas</i> , 2008 , 15, 082302	2.1	13

43	Magnetospheric seismology using multiharmonic toroidal waves observed at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		28
42	Solar wind parameters for magnetospheric magnetic field modeling. <i>Space Weather</i> , 2007 , 5, n/a-n/a	3.7	40
41	Reduced magnetohydrodynamic equations with coupled Alfvén and sound wave dynamics. <i>Physics of Plasmas</i> , 2007 , 14, 102906	2.1	4
40	Electromagnetic Ion Cyclotron Waves in the Magnetosphere. <i>Geophysical Monograph Series</i> , 2006 , 195-212		38
39	Remote Sensing the Magnetosphere Using Ground-Based Observations of ULF Waves. <i>Geophysical Monograph Series</i> , 2006 , 319-340	1.1	14
38	Mass density inferred from toroidal wave frequencies and its comparison to electron density. <i>Journal of Geophysical Research</i> , 2006 , 111,		49
37	Distribution of density along magnetospheric field lines. <i>Journal of Geophysical Research</i> , 2006 , 111,		105
36	Realistic magnetospheric density model for 29 August 2000. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006 , 68, 615-628	2	12
35	On the source of Pc1-2 waves in the plasma mantle. <i>Journal of Geophysical Research</i> , 2005 , 110,		15
34	Pc 1 waves and associated unstable distributions of magnetospheric protons observed during a solar wind pressure pulse. <i>Journal of Geophysical Research</i> , 2005 , 110,		54
33	Magnetospheric toroidal Alfvén wave harmonics and the field line distribution of mass density. <i>Journal of Geophysical Research</i> , 2004 , 109,		32
32	Electron density in the magnetosphere. <i>Journal of Geophysical Research</i> , 2004 , 109,		66
31	Frequencies of standing Alfvén wave harmonics and their implication for plasma mass distribution along geomagnetic field lines: Statistical analysis of CRRES data. <i>Journal of Geophysical Research</i> , 2004 , 109,		62
30	Radial localization of magnetospheric guided poloidal Pc 4-5 waves. <i>Journal of Geophysical Research</i> , 2003 , 108,		22
29	Signatures of collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2003 , 108,		56
28	Magnetospheric electron density model inferred from Polar plasma wave data. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 25-1		47
27	Field line dependence of magnetospheric electron density. <i>Geophysical Research Letters</i> , 2002 , 29, 58-1-58-4	1.9	65
26	Empirical model for scattering caused by field line curvature in a realistic magnetosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 3-1		30

25	Toroidal wave frequency at L = 6.0: Active Magnetospheric Particle Tracer Explorers/CCE observations and comparison with theoretical model. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 2-1-SMP 2-14		32
24	Quantitative test of the cavity resonance explanation of plasmaspheric Pi2 frequencies. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 4-1		17
23	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001 , 106, 3715-3719		970
22	Alfvénic collisionless magnetic reconnection and the Hall term. <i>Journal of Geophysical Research</i> , 2001 , 106, 3759-3772		361
21	Latitudinal density dependence of magnetic field lines inferred from Polar plasma wave data. <i>Journal of Geophysical Research</i> , 2001 , 106, 6195-6201		61
20	Two-dimensional global hybrid simulation of pressure evolution and waves in the magnetosheath. <i>Journal of Geophysical Research</i> , 2001 , 106, 10691-10704		4
19	Determining the mass density along magnetic field lines from toroidal eigenfrequencies: Polynomial expansion applied to CRRES data. <i>Journal of Geophysical Research</i> , 2001 , 106, 29915-29924		29
18	Determining the mass density along magnetic field lines from toroidal eigenfrequencies. <i>Journal of Geophysical Research</i> , 2000 , 105, 27717-27725		27
17	Effect of pressure anisotropy on the structure of a two-dimensional magnetosheath. <i>Journal of Geophysical Research</i> , 2000 , 105, 7545-7556		20
16	The scaling of collisionless, magnetic reconnection for large systems. <i>Geophysical Research Letters</i> , 1999 , 26, 2163-2166	4.9	217
15	A magnetohydrodynamic model of kinetic Alfvén waves with finite ion gyroradius. <i>Physics of Plasmas</i> , 1996 , 3, 3861-3863	2.1	14
14	Density depletion in an anisotropic magnetosheath. <i>Geophysical Research Letters</i> , 1996 , 23, 2891-2894	4.9	28
13	On determining polarization characteristics of ion cyclotron wave magnetic field fluctuations. <i>Journal of Geophysical Research</i> , 1996 , 101, 13195-13213		49
12	Observational test of local proton cyclotron instability in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1996 , 101, 21527-21543		115
11	Effects of wave superposition on the polarization of electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1996 , 101, 24869-24885		39
10	Bounded anisotropy fluid model for ion temperature evolution applied to AMPTE/IRM magnetosheath data. <i>Journal of Geophysical Research</i> , 1995 , 100, 14925		15
9	Ion Anisotropy-Driven Waves in the Earth's Magnetosheath and Plasma Depletion Layer. <i>Geophysical Monograph Series</i> , 1994 , 111-119	1.1	8
8	A limited closure relation for anisotropic plasmas from the Earth's magnetosheath*. <i>Physics of Plasmas</i> , 1994 , 1, 1676-1683	2.1	53

- 7 Transition to whistler mediated magnetic reconnection. *Geophysical Research Letters*, **1994**, 21, 73-76 4.9 275
- 6 Low-frequency magnetic fluctuation spectra in the magnetosheath and plasma depletion layer. *Journal of Geophysical Research*, **1994**, 99, 5893 45
- 5 Magnetic spectral signatures in the Earth's magnetosheath and plasma depletion layer. *Journal of Geophysical Research*, **1994**, 99, 5877 196
- 4 Proton and helium cyclotron anisotropy instability thresholds in the magnetosheath. *Journal of Geophysical Research*, **1994**, 99, 5915 40
- 3 Bounded anisotropy fluid model for ion temperatures. *Journal of Geophysical Research*, **1994**, 99, 11225 86
- 2 Electromagnetic ion cyclotron waves in the plasma depletion layer. *Journal of Geophysical Research*, **1993**, 98, 13477-13490 41
- 1 Loss-cone-driven ion cyclotron waves in the magnetosphere. *Journal of Geophysical Research*, **1992**, 97, 12093 40