

Michael J Wiltberger

List of Publications by Year in descending order

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162
papers

5,015
citations

93792

39
h-index

139680

61
g-index

170
all docs

170
docs citations

170
times ranked

2635
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermospheric Density Perturbations Produced by Traveling Atmospheric Disturbances During August 2005 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	28
2	Coupling the Rice Convection Modelâ€œEquilibrium to the Lyonâ€œFedderâ€œMobarry Global Magnetohydrodynamic Model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028973.	0.8	1
3	The Role of Diffuse Electron Precipitation in the Formation of Subauroral Polarization Streams. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	19
4	Ballooningâ€œInterchange Instability in the Nearâ€œEarth Plasma Sheet and Auroral Beads: Global Magnetospheric Modeling at the Limit of the MHD Approximation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088227.	1.5	59
5	Conservative averaging-reconstruction techniques (Ring Average) for 3-D finite-volume MHD solvers with axis singularity. <i>Journal of Computational Physics</i> , 2019, 376, 276-294.	1.9	17
6	GAMERA: A Three-dimensional Finite-volume MHD Solver for Non-orthogonal Curvilinear Geometries. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 20.	3.0	71
7	Simulations of Electron Energization and Injection by BBFs Using Highâ€œResolution LFM MHD Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1222-1238.	0.8	20
8	Asymmetric Kelvinâ€œHelmholtz Instability at Jupiter's Magnetopause Boundary: Implications for Corotationâ€œDominated Systems. <i>Geophysical Research Letters</i> , 2018, 45, 56-63.	1.5	34
9	On the Relation Between Soft Electron Precipitations in the Cusp Region and Solar Wind Coupling Functions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 211-226.	0.8	1
10	Pitch Angle Scattering of Energetic Electrons by BBFs. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9265-9274.	0.8	14
11	Structure of High Latitude Currents in Magnetosphere-Ionosphere Models. <i>Space Sciences Series of ISSI</i> , 2018, , 583-606.	0.0	0
12	Effects of electrojet turbulence on a magnetosphereâ€œionosphere simulation of a geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5008-5027.	0.8	41
13	ULF wave analysis and radial diffusion calculation using a global MHD model for the 17 March 2013 and 2015 storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7353-7363.	0.8	35
14	Comparison of predictive estimates of highâ€œlatitude electrodynamics with observations of globalâ€œscale Birkeland currents. <i>Space Weather</i> , 2017, 15, 352-373.	1.3	35
15	The substorm cycle as reproduced by global MHD models. <i>Space Weather</i> , 2017, 15, 131-149.	1.3	17
16	Simulated Prompt Acceleration of Multiâ€œMeV Electrons by the 17 March 2015 Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,036.	0.8	33
17	Structure of High Latitude Currents in Magnetosphere-Ionosphere Models. <i>Space Science Reviews</i> , 2017, 206, 575-598.	3.7	24
18	The Role of Solar Wind Density in Cross Polar Cap Potential Saturation Under Northward Interplanetary Magnetic Field. <i>Geophysical Research Letters</i> , 2017, 44, 11,729-11,734.	1.5	3

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19	Transition from global to local control of dayside reconnection from ionospheric-sourced mass loading. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9474-9488.	0.8	17
20	Global MHD modeling of resonant ULF waves: Simulations with and without a plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 227-244.	0.8	40
21	Feature-based validation of the Lyon-Fedder-Mobarry magnetohydrodynamical model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1192-1200.	0.8	6
22	Global ULF wave analysis of radial diffusion coefficients using a global MHD model for the 17 March 2015 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6196-6206.	0.8	25
23	Effects of magnetospheric lobe cell convection on dayside upper thermospheric winds at high latitudes. <i>Geophysical Research Letters</i> , 2016, 43, 8348-8355.	1.5	10
24	Community-wide validation of geospace model local K-index predictions to support model transition to operations. <i>Space Weather</i> , 2016, 14, 469-480.	1.3	27
25	GEM-CEDAR challenge: Poynting flux at DMSP and modeled Joule heat. <i>Space Weather</i> , 2016, 14, 113-135.	1.3	20
26	Influence of ion outflow in coupled geospace simulations: 2. Sawtooth oscillations driven by physics-based ion outflow. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9688-9700.	0.8	14
27	Effects of auroral potential drops on plasma sheet dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,129-11,144.	0.8	5
28	Influence of ion outflow in coupled geospace simulations: 1. Physics-based ion outflow model development and sensitivity study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9671-9687.	0.8	24
29	Global real-time dose measurements using the Automated Radiation Measurements for Aerospace Safety (ARMAS) system. <i>Space Weather</i> , 2016, 14, 1053-1080.	1.3	27
30	How does mass loading impact local versus global control on dayside reconnection?. <i>Geophysical Research Letters</i> , 2016, 43, 1837-1844.	1.5	23
31	Anomalous electron heating effects on the E region ionosphere in TIEGCM. <i>Geophysical Research Letters</i> , 2016, 43, 2351-2358.	1.5	18
32	The Earth: Plasma Sources, Losses, and Transport Processes. <i>Space Sciences Series of ISSI</i> , 2016, , 145-208.	0.0	3
33	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Sciences Series of ISSI</i> , 2016, , 27-89.	0.0	0
34	Assessing the performance of community-available global MHD models using key system parameters and empirical relationships. <i>Space Weather</i> , 2015, 13, 868-884.	1.3	40
35	Pathways of F region thermospheric mass density enhancement via soft electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5824-5831.	0.8	16
36	Poynting flux-conserving low-altitude boundary conditions for global magnetospheric models. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 384-400.	0.8	5

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37	High-resolution global magnetohydrodynamic simulation of bursty bulk flows. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4555-4566.	0.8	90
38	Emulating and Calibrating the Multiple-Fidelity Lyon-Fedder-Mobarry Magnetosphere-Ionosphere Coupled Computer Model. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2015, 64, 93-113.	0.5	7
39	Propagation of Pi2 pulsations through the braking region in global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,574.	0.8	10
40	Magnetohydrodynamic modeling of three Van Allen Probes storms in 2012 and 2013. <i>Annales Geophysicae</i> , 2015, 33, 1037-1050.	0.6	15
41	Electron precipitation models in global magnetosphere simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1035-1056.	0.8	56
42	The role of magnetic flux tube deformation and magnetosheath plasma beta in the saturation of the Region 1 field-aligned current system. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2036-2051.	0.8	13
43	Modeling CME-shock-driven storms in 2012-2013: MHD test particle simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1168-1181.	0.8	50
44	Modeling the interaction between convection and nonthermal ion outflows. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2353-2362.	0.8	14
45	The Earth: Plasma Sources, Losses, and Transport Processes. <i>Space Science Reviews</i> , 2015, 192, 145-208.	3.7	54
46	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Science Reviews</i> , 2015, 192, 27-89.	3.7	16
47	Model Calibration via Deformation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2014, 2, 545-563.	1.1	8
48	Simulated magnetopause losses and Van Allen Probe flux dropouts. <i>Geophysical Research Letters</i> , 2014, 41, 1113-1118.	1.5	105
49	RCM and AMIE studies of the Harang reversal formation during a steady magnetospheric convection event. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7228-7242.	0.8	9
50	Solar wind control of auroral Alfvénic power generated in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1734-1748.	0.8	16
51	Fast Sequential Computer Model Calibration of Large Nonstationary Spatial-Temporal Processes. <i>Technometrics</i> , 2013, 55, 232-242.	1.3	24
52	Global evolution of Birkeland currents on 10 min timescales: MHD simulations and observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4977-4997.	0.8	31
53	Global Structure of ULF Waves During the 24-26 September 1998 Geomagnetic Storm. <i>Geophysical Monograph Series</i> , 2013, , 127-138.	0.1	11
54	Geospace environment modeling 2008-2009 challenge: <i>D</i>_{st} index. <i>Space Weather</i> , 2013, 11, 187-205.	1.3	69

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55	Predicting the location of polar cusp in the Lyon-Fedder-Mobarry global magnetosphere simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6327-6337.	0.8	25
56	The effects of ionospheric outflow on ICME and SIR driven sawtooth events. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6026-6041.	0.8	38
57	Investigation of the interhemispheric asymmetry in reverse convection near solstice during northward interplanetary magnetic field conditions using MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4289-4297.	0.8	7
58	Parameter tuning for a multi-fidelity dynamical model of the magnetosphere. <i>Annals of Applied Statistics</i> , 2013, 7, .	0.5	16
59	Community-wide validation of geospace model ground magnetic field perturbation predictions to support model transition to operations. <i>Space Weather</i> , 2013, 11, 369-385.	1.3	136
60	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. <i>Space Weather</i> , 2013, 11, 313-326.	1.3	28
61	Simulation of the March 9, 1995 Substorm and Initial Comparison to Data. <i>Geophysical Monograph Series</i> , 2013, , 237-245.	0.1	13
62	The effects of seasonal and diurnal variations in the Earth's magnetic dipole orientation on solar wind-magnetosphere-ionosphere coupling. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
63	Magnetotail origins of auroral Alfvénic power. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
64	Initial results from a dynamic coupled magnetosphere-ionosphere-ring current model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	102
65	CMIT study of CR2060 and 2068 comparing L1 and MAS solar wind drivers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 83, 39-50.	0.6	18
66	The effects of Corotating interaction region/High speed stream storms on the thermosphere and ionosphere during the last solar minimum. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 83, 79-87.	0.6	56
67	The role of dayside merging in generating the ionospheric potential during the Whole Heliospheric Interval. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 83, 63-69.	0.6	13
68	Investigating the viscous interaction and its role in generating the ionospheric potential during the Whole Heliosphere Interval. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 83, 70-78.	0.6	7
69	Radiation belt 2D and 3D simulations for CIR-driven storms during Carrington Rotation 2068. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 83, 51-62.	0.6	16
70	Enhancement of thermospheric mass density by soft electron precipitation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	38
71	Simulation of the polar cap potential during periods with northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
72	Atmospheric Ionizing Radiation from Galactic and Solar Cosmic Rays. , 2012, , .		6

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73	The dependence of the coupled magnetosphere-ionosphere-thermosphere system on the Earth's magnetic dipole moment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41
74	Investigation of the viscous potential using an MHD simulation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
75	Modeling studies of the impact of high-speed streams and co-rotating interaction regions on the thermosphere-ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
76	Geospace Environment Modeling 2008-2009 Challenge: Ground magnetic field perturbations. <i>Space Weather</i> , 2011, 9, .	1.3	71
77	Geospace Environment Modeling 2008-2009 Challenge: Geosynchronous magnetic field. <i>Space Weather</i> , 2011, 9, .	1.3	30
78	The response of the coupled magnetosphere-ionosphere-thermosphere system to a 25% reduction in the dipole moment of the Earth's magnetic field. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
79	Ionospheric Day-to-Day Variability Around the Whole Heliosphere Interval in 2008. <i>Solar Physics</i> , 2011, 274, 457-472.	1.0	45
80	A statistical study of magnetosphere-ionosphere coupling in the Lyon-Fedder-Mobarry global MHD model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 686-702.	0.6	28
81	Magnetosphere Sawtooth Oscillations Induced by Ionospheric Outflow. <i>Science</i> , 2011, 332, 1183-1186.	6.0	106
82	Ionospheric response to the initial phase of geomagnetic storms: Common features. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	75
83	Role of magnetosheath force balance in regulating the dayside reconnection potential. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	81
84	Magnetic reconnection at the dayside magnetopause in global Lyon-Fedder-Mobarry simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
85	Saturation of transpolar potential for large Y component interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
86	Geomagnetic influence on aircraft radiation exposure during a solar energetic particle event in October 2003. <i>Space Weather</i> , 2010, 8, n/a-n/a.	1.3	64
87	Solar energetic particle cutoff variations during the 29-31 October 2003 geomagnetic storm. <i>Space Weather</i> , 2010, 8, n/a-n/a.	1.3	50
88	Correction to "Magnetospheric cavity modes driven by solar wind dynamic pressure fluctuations". <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	0
89	Effects of causally driven cusp O^+ outflow on the storm time magnetosphere-ionosphere system using a multifluid global simulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
90	Influence of cusp O^+ outflow on magnetotail dynamics in a multifluid MHD model of the magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73

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91	Effects of solar wind dynamic pressure on the ionospheric O ⁺ fluence during the 31 August 2005 storm. Journal of Geophysical Research, 2010, 115, .	3.3	17
92	Using a global magnetohydrodynamic model to study the start of the substorm recovery phase. Journal of Geophysical Research, 2010, 115, .	3.3	2
93	Magnetospheric cavity modes driven by solar wind dynamic pressure fluctuations. Geophysical Research Letters, 2009, 36, .	1.5	63
94	Building and Using Coupled Models for the Space Weather System: Lessons Learned. Space Weather, 2009, 7, n/a-n/a.	1.3	4
95	Space Physics for Graduate Students: An Activities-Based Approach. Eos, 2009, 90, 13-14.	0.1	2
96	Modeling seasonal variations of auroral particle precipitation in a global-scale magnetosphere-ionosphere simulation. Journal of Geophysical Research, 2009, 114, .	3.3	85
97	Why doesn't the ring current injection rate saturate?. Journal of Geophysical Research, 2009, 114, .	3.3	34
98	A novel metric for coronal MHD models. Journal of Geophysical Research, 2009, 114, .	3.3	2
99	Studies of magnetotail dynamics and energy evolution during substorms using MHD simulations. Annales Geophysicae, 2009, 27, 1717-1727.	0.6	3
100	Altitude variations of the horizontal thermospheric winds during geomagnetic storms. Journal of Geophysical Research, 2008, 113, .	3.3	35
101	Geotail and LFM comparisons of plasma sheet climatology: 1. Average values. Journal of Geophysical Research, 2008, 113, .	3.3	22
102	Geotail and LFM comparisons of plasma sheet climatology: 2. Flow variability. Journal of Geophysical Research, 2008, 113, .	3.3	13
103	Solar wind driving of magnetospheric ULF waves: Pulsations driven by velocity shear at the magnetopause. Journal of Geophysical Research, 2008, 113, .	3.3	183
104	An event study to provide validation of TING and CMIT geomagnetic middle-latitude electron densities at the F ₂ peak. Journal of Geophysical Research, 2008, 113, .	3.3	7
105	Influence of Space Weather on Aircraft Ionizing Radiation Exposure. , 2008, , .		8
106	Ionospheric electric field variations during a geomagnetic storm simulated by a coupled magnetosphere ionosphere thermosphere (CMIT) model. Geophysical Research Letters, 2008, 35, .	1.5	78
107	Posteruptive phenomena in coronal mass ejections and substorms: Indicators of a universal process?. Journal of Geophysical Research, 2008, 113, .	3.3	19
108	Observations and simulations of quasiperiodic ionospheric oscillations and large-scale traveling ionospheric disturbances during the December 2006 geomagnetic storm. Journal of Geophysical Research, 2008, 113, .	3.3	44

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109	Complexities of a 3D plasmoid flux rope as shown by an MHD simulation. Journal of Geophysical Research, 2008, 113, .	3.3	11
110	Comparison of Birkeland current observations during two magnetic cloud events with MHD simulations. Annales Geophysicae, 2008, 26, 499-516.	0.6	17
111	Space Weather Nowcasting of Atmospheric Ionizing Radiation for Aviation Safety. , 2007, , .		4
112	Radiation belt electrons respond to multiple solar wind inputs. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	17
113	Predicting magnetopause crossings at geosynchronous orbit during the Halloween storms. Space Weather, 2007, 5, n/a-n/a.	1.3	33
114	Branch prediction and speculative execution: A magnetospheric data assimilation scheme for space weather forecasting. Space Weather, 2007, 5, .	1.3	4
115	An analysis of neutral wind generated currents during geomagnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 159-165.	0.6	10
116	End-to-End Modeling of the Solar Terrestrial System. Space Science Reviews, 2007, 124, 217-231.	3.7	2
117	End-to-End Modeling of the Solar Terrestrial System. Space Sciences Series of ISSI, 2007, , 217-231.	0.0	0
118	Radial diffusion and MHD particle simulations of relativistic electron transport by ULF waves in the September 1998 storm. Journal of Geophysical Research, 2006, 111, .	3.3	164
119	Vertical variations in the N2 mass mixing ratio during a thermospheric storm that have been simulated using a coupled magnetosphere-ionosphere-thermosphere model. Journal of Geophysical Research, 2006, 111, .	3.3	25
120	Results from magnetospheric Gedanken experiments using the LFM. Advances in Space Research, 2005, 36, 1797-1803.	1.2	5
121	Ionospheric joule heating during magnetic storms: MHD simulations. Advances in Space Research, 2005, 36, 1845-1848.	1.2	4
122	Polar cap potential during magnetic storms: MHD simulations. Advances in Space Research, 2005, 36, 1859-1863.	1.2	0
123	Analysis and visualization of space science model output and data with CISM-DX. Journal of Geophysical Research, 2005, 110, .	3.3	16
124	Effect of anomalous electron heating on the transpolar potential in the LFM global MHD model. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	24
125	Plasma sheet climatology: Geotail observations and LFM model comparisons. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1351-1360.	0.6	7
126	Physical models of the geospace radiation environment. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1371-1387.	0.6	82

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127	Initial results from the coupled magnetosphere ionosphere thermosphere model: magnetospheric and ionospheric responses. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1411-1423.	0.6	144
128	Coupled model simulation of a Sun-to-Earth space weather event. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1243-1256.	0.6	67
129	Initial results from the coupled magnetosphere-ionosphere-thermosphere model: thermosphere-ionosphere responses. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 1425-1441.	0.6	120
130	Coupling Between the Solar Wind and the Magnetosphere During Strong Driving: MHD Simulations. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 1439-1442.	0.6	1
131	Global control of merging by the interplanetary magnetic field: Cluster observations of dawnside flank magnetopause reconnection. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10
132	Intercomparison of ionospheric electrodynamics from the Iridium constellation with global MHD simulations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
133	Solar wind density control of energy transfer to the magnetosphere. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	77
134	Results from the Lyon-Fedder-Mobarry global magnetospheric model for the electrojet challenge. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 1213-1222.	0.6	16
135	Magnetotail flows can consume as much solar wind energy as a substorm. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	3
136	Phase transition-like behavior of magnetospheric substorms: Global MHD simulation results. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	18
137	Magnetopause erosion: A global view from MHD simulation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	26
138	Geosynchronous magnetic field temporal response to solar wind and IMF variations. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 32-1-SMP 32-10.	3.3	39
139	Comparing ground magnetic field perturbations from global MHD simulations with magnetometer data for the 10 January 1997 magnetic storm event. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 11-1-SMP 11-10.	3.3	14
140	MHD/particle simulations of radiation belt dynamics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 607-615.	0.6	68
141	Modeling ionospheric absorption modified by anomalous heating during substorms. <i>Geophysical Research Letters</i> , 2001, 28, 487-490.	1.5	2
142	Three-dimensional MHD simulations of the steady state magnetosphere with northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2001, 106, 275-287.	3.3	19
143	Three-dimensional MHD simulations of the Earth's magnetosphere on Feb 9-10 1995 for northward interplanetary magnetic field and comparison of the lobe field with Geotail observations. <i>Geophysical Research Letters</i> , 2001, 28, 3835-3838.	1.5	1
144	A Fluid Approach to the Heliosphere/VLISM Problem. <i>COSPAR Colloquia Series</i> , 2001, 11, 89-98.	0.2	3

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145	Solar windâ€™magnetosphere energy coupling under extreme interplanetary conditions: MHD simulations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000, 62, 865-874.	0.6	10
146	Thin current sheet evolution as seen in observations, empirical models and MHD simulations. <i>Geophysical Research Letters</i> , 2000, 27, 1363-1366.	1.5	19
147	MHD simulation of the magnetotail during the December 10, 1996, substorm. <i>Journal of Geophysical Research</i> , 2000, 105, 27649-27663.	3.3	92
148	Global magnetospheric response to IMF driving: ISTP observations, empirical modeling, and MHD simulations. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 153-162.	0.2	1
149	The physics of substorms as revealed by the ISTP. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 189-202.	0.2	13
150	MHD simulations of the response of high-latitude potential patterns and polar cap Boundaries to sudden southward turnings of the interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1999, 26, 967-970.	1.5	38
151	Pseudobreakup and substorm onset: Observations and MHD simulations compared. <i>Journal of Geophysical Research</i> , 1998, 103, 14847-14854.	3.3	56
152	Simulation of the March 9, 1995, substorm: Auroral brightening and the onset of lobe reconnection. <i>Geophysical Research Letters</i> , 1998, 25, 3039-3042.	1.5	67
153	An overview of the impact of the January 10-11 1997 magnetic cloud on the magnetosphere via global MHD simulation. <i>Geophysical Research Letters</i> , 1998, 25, 2537-2540.	1.5	63
154	Global MHD Simulation of Actual Magnetospheric Substorm Events. <i>Astrophysics and Space Science Library</i> , 1998, , 645-650.	1.0	1
155	Effects of Northward Turnings on the Initiation of Substorms in Global MHD Simulations. <i>Astrophysics and Space Science Library</i> , 1998, , 287-290.	1.0	1
156	Coupling between Local and Global Activity during the Substorm Expansion Phase: Results from MHD Simulations and Comparison to Observations. <i>Astrophysics and Space Science Library</i> , 1998, , 169-174.	1.0	1
157	Nonequilibrium, large-amplitude MHD fluctuations in the solar wind. <i>Journal of Geophysical Research</i> , 1995, 100, 3405-3415.	3.3	16
158	Injection of Energetic Ions During the 31 March 0630 Substorm. <i>Geophysical Monograph Series</i> , 0, , 147-154.	0.1	14
159	Comparison of MHD Simulations of Isolated and Storm Time Substorms. <i>Geophysical Monograph Series</i> , 0, , 271-281.	0.1	7
160	Investigation of 3D Energetic Particle Transport Inside Quiet-Time Magnetosphere using Particle Tracing in Global MHD Model. <i>Geophysical Monograph Series</i> , 0, , 307-318.	0.1	3
161	Radiation Belt Electron Acceleration by ULF Wave Drift Resonance: Simulation of 1997 and 1998 Storms. <i>Geophysical Monograph Series</i> , 0, , 289-296.	0.1	25
162	INITIAL RESULTS FROM THE SIMULATION OF THE HALLOWEEN 2003 STORMS. , 0, , 191-200.		2