

Hiroshi Matsui

List of Publications by Year in descending order

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46
papers

857
citations

471509
17
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501196
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47
times ranked

885
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugate ground and multisatellite observations of compression-related EMIC Pc1 waves and associated proton precipitation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	108
2	The Electron Drift Instrument on Cluster: overview of first results. <i>Annales Geophysicae</i> , 2001, 19, 1273-1288.	1.6	89
3	Whistler critical Mach number and electron acceleration at the bow shock: Geotail observation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	58
4	Cluster and DMSP observations of SAID electric fields. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	55
5	Recent Progress in Physics-Based Models of the Plasmasphere. <i>Space Science Reviews</i> , 2009, 145, 193-229.	8.1	50
6	Augmented Empirical Models of Plasmaspheric Density and Electric Field Using IMAGE and CLUSTER Data. <i>Space Science Reviews</i> , 2009, 145, 231-261.	8.1	36
7	Cold dense plasma in the outer magnetosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 25077-25095.	3.3	35
8	Analysis of plasmaspheric plumes: CLUSTER and IMAGE observations. <i>Annales Geophysicae</i> , 2006, 24, 1737-1758.	1.6	35
9	Revision of empirical electric field modeling in the inner magnetosphere using Cluster data. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4119-4134.	2.4	30
10	Ring current development during high speed streams. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1093-1102.	1.6	29
11	Wind and ACE observations during the great flow of 14 May 1998: Relation to solar activity and implications for the magnetosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SSH 3-1.	3.3	26
12	Electric field measurements in the inner magnetosphere by Cluster EDI. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	26
13	Derivation of electric potential patterns in the inner magnetosphere from Cluster EDI data: Initial results. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	24
14	Cluster EDI convection measurements across the high-latitude plasma sheet boundary at midnight. <i>Annales Geophysicae</i> , 2001, 19, 1669-1681.	1.6	24
15	Wind-ACE solar wind correlations, 1999: An approach through spectral analysis. <i>Journal of Geophysical Research</i> , 2002, 107, SSH 7-1.	3.3	23
16	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvenic flow. <i>Geophysical Research Letters</i> , 2016, 43, 6070-6077.	4.0	22
17	Derivation of inner magnetospheric electric field (UNH-IMEF) model using Cluster data set. <i>Annales Geophysicae</i> , 2008, 26, 2887-2898.	1.6	21
18	An effort to derive an empirically based, inner-magnetospheric electric field model: Merging Cluster EDI and EFW data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 564-573.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Recent Progress in Physics-Based Models of the Plasmasphere. , 2009, , 193-229.		13
20	Magnetosheath for almost aligned solar wind magnetic field and flow vectors: Wind observations across the dawnside magnetosheath at X = 12 Re. Journal of Geophysical Research, 2010, 115, .	3.3	11
21	Augmented Empirical Models of Plasmaspheric Density and Electric Field Using IMAGE and CLUSTER Data. , 2009, , 231-261.		10
22	Multipoint MMS observations of fine-scale SAPS structure in the inner magnetosphere. Geophysical Research Letters, 2016, 43, 7294-7300.	4.0	10
23	Pc5 pulsations observed in the dayside magnetosphere by Geotail. Geophysical Research Letters, 1994, 21, 2903-2906.	4.0	9
24	Whistler mode waves observed by MGF search coil magnetometer-Polarization and wave normal features of upstream waves near the bow-shock. Geophysical Research Letters, 1994, 21, 2907-2910.	4.0	8
25	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028903.	2.4	8
26	IMF \times B and the seasonal dependences of the electric field in the inner magnetosphere. Annales Geophysicae, 2005, 23, 2671-2678.	1.6	7
27	Shock-driven variation in ionospheric outflow during the 11 October 2001 moderate storm. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
28	Multi-spacecraft observations of small-scale fluctuations in density and fields in plasmaspheric plumes. Annales Geophysicae, 2012, 30, 623-637.	1.6	7
29	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. Geophysical Research Letters, 2016, 43, 9397-9405.	4.0	7
30	Electric Fields and Magnetic Fields in the Plasmasphere: A Perspective From CLUSTER and IMAGE. Space Science Reviews, 2009, 145, 107-135.	8.1	6
31	Efficacy of Electric Field Models in Reproducing Observed Ring Current Ion Spectra During Two Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2019, 124, 8974-8991.	2.4	6
32	Outflow of cold dense plasma associated with variation of convection in the outer magnetosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 521-526.	1.6	5
33	Cluster observations of broadband ULF waves near the dayside polar cap boundary: Two detailed multi-instrument event studies. Journal of Geophysical Research, 2007, 112, .	3.3	5
34	Characteristics of storm time electric fields in the inner magnetosphere derived from Cluster data. Journal of Geophysical Research, 2010, 115, .	3.3	5
35	Relativistic Electron Increase During Chorus Wave Activities on the 6-8 March 2016 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2017, 122, 11,302-11,319.	2.4	5
36	Nonlinearity in chorus waves during a geomagnetic storm on 1 November 2012. Journal of Geophysical Research: Space Physics, 2016, 121, 358-373.	2.4	3

#	ARTICLE	IF	CITATIONS
37	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9934-9951.	2.4	3
38	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8983-9004.	2.4	3
39	Velocity Rotation Events in the Outer Magnetosphere Near the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4137-4156.	2.4	3
40	Electric Fields and Magnetic Fields in the Plasmasphere: A Perspective from CLUSTER and IMAGE. , 2009, , 107-135.		3
41	Oscillation of electron counts at 500 eV downstream of the quasi-perpendicular bow shock. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
42	Positioning of auroral arcs in all-sky TV images as an inverse problem. <i>Physics and Chemistry of the Earth</i> , 1997, 22, 723-728.	0.3	1
43	Coherence Lengths of the Interplanetary Electric Field: Solar Cycle Maximum Conditions. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	1
44	Results of the Electron Drift Instrument on Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029313.	2.4	1
45	Observations of convection in the dayside magnetosphere by the beam instrument on Geotail. <i>Annales Geophysicae</i> , 2001, 19, 303-310.	1.6	1
46	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029294.	2.4	0