Margaret Chen

List of Publications by Year
in descending order

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49 papers	1,232 citations	304743 22 h-index	377865 34 g-index
51 all docs	51 docs citations	51 times ranked	695 citing authors

#	Article	IF	Citations
1	Why Atmospheric Backscatter Is Important in the Formation of Electron Precipitation in the Diffuse Aurora. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029211.	2.4	5
2	To the Interchange Instability Criterion in the Magnetosphere in the Presence of Velocity Shear. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028172.	2.4	1
3	Introduction and historical background. , 2020, , 1-13.		3
4	Ring current development. , 2020, , 153-180.		2
5	The Magnetosphereâ€Ionosphere Electron Precipitation Dynamics and Their Geospace Consequences During the 17 March 2013 Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 6504-6523.	2.4	16
6	Diffuse Auroral Electron and Ion Precipitation Effects on RCMâ€E Comparisons With Satellite Data During the 17 March 2013 Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 4194-4216.	2.4	22
7	Effects of Uncertainties in Electric Field Boundary Conditions for Ring Current Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 638-652.	2.4	9
8	An empirical model of ion plasma in the inner magnetosphere derived from CRRES/MICS measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 11,780.	2.4	11
9	Comparison of simulated and observed trapped and precipitating electron fluxes during a magnetic storm. Geophysical Research Letters, 2015, 42, 8302-8311.	4.0	24
10	Effects of modeled ionospheric conductance and electron loss on selfâ€consistent ring current simulations during the 5â€“7 April 2010 storm. Journal of Geophysical Research: Space Physics, 2015, 120, 5355-5376.	2.4	29
11	Long-Term Galactic Cosmic Ray Environment Response of Plasma Analyzers on High-Altitude Spacecraft. Journal of Spacecraft and Rockets, 2015, 52, 1169-1180.	1.9	1
12	Regions of ion energization observed during the Galaxyâ€15 substorm with TWINS. Journal of Geophysical Research: Space Physics, 2014, 119, 8274-8287.	2.4	19
13	Comparison of selfâ€consistent simulations with observed magnetic field and ion plasma parameters in the ring current during the 10 August 2000 magnetic storm. Journal of Geophysical Research, 2012, 117, .	3.3	12
14	Field-line (Euler-potential) model of the ring current. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 482-489.	1.6	12
15	Solarâ€wind influence on MLT dependence of plasma sheet conditions and their effects on storm time ring current formation. Geophysical Research Letters, 2007, 34, .	4.0	17
16	Initial simulation results of storm-time ring current in a self-consistent magnetic field model. Journal of Geophysical Research, 2006, 111, .	3.3	16
17	Magnetically self-consistent ring current simulations during the 19 October 1998 storm. Journal of Geophysical Research, 2006, 111, .	3.3	32
18	Simulated stormtime ring-current magnetic field produced by ions and electrons. Geophysical Monograph Series, 2005, , 237-250.	0.1	8

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19	Relative contribution of electrons to the stormtime total ring current energy content. Geophysical Research Letters, 2005, 32, .	4.0	31
20	Storm time distributions of diffuse auroral electron energy and X-ray flux: Comparison of drift-loss simulations with observations. Journal of Geophysical Research, 2005, 110, .	3.3	22
21	Empirical models of the low-energy plasma in the inner magnetosphere. Space Weather, 2005, 3, n/a-n/a.	3.7	32
22	Low Mach number bow shock locations during a magnetic cloud event: Observations and magnetohydrodynamic simulations. Geophysical Research Letters, 2004, 31, .	4.0	9
23	Modeling the transition of the inner plasma sheet from weak to enhanced convection. Journal of Geophysical Research, 2004, 109, .	3.3	33
24	Quasi-steady drift paths in a model magnetosphere with AMIE electric field: Implications for ring current formation. Journal of Geophysical Research, 2003, 108, .	3.3	42
25	Modeling the inner plasma sheet protons and magnetic field under enhanced convection. Journal of Geophysical Research, 2003, 108, .	3.3	23
26	Contribution of convective transport to stormtime ring current electron injection. Journal of Geophysical Research, 2003, 108, .	3.3	34
27	Examination of the storm/substorm relationship using global auroral X-ray images. Journal of Geophysical Research, 2002, 107, SMP 24-1.	3.3	4
28	Two-dimensional quiet time equilibrium for the inner plasma sheet protons and magnetic field. Geophysical Research Letters, 2002, 29, 39-1-39-4.	4.0	6
29	Simulations of storm time diffuse aurora with plasmasheet electrons in strong pitch angle diffusion. Journal of Geophysical Research, 2001, 106, 1873-1886.	3.3	40
30	Modeling the quiet time inner plasma sheet protons. Journal of Geophysical Research, 2001, 106, 6161-6178.	3.3	43
31	Simulations of diffuse aurora with plasma sheet electrons in pitch angle diffusion less than everywhere strong. Journal of Geophysical Research, 2001, 106, 28949-28966.	3.3	56
32	Internal charging: a preliminary environmental specification for satellites. IEEE Transactions on Plasma Science, 2000, 28, 2029-2036.	1.3	27
33	Global storm time auroral X-ray morphology and timing and comparison with UV measurements. Journal of Geophysical Research, 2000, 105, 15757-15777.	3.3	21
34	Stormtime ring-current formation: A comparison between single-and double-dip model storms with similar transport characteristics. Journal of Geophysical Research, 2000, 105, 27755-27765.	3.3	21
35	Phase-space density mappings for diffuse auroral electrons under strong pitch-angle diffusion in Dungey's model magnetosphere. Advances in Space Research, 1999, 23, 1739-1746.	2.6	5
36	Proton ring current pitch angle distributions: Comparison of simulations with CRRES observations. Journal of Geophysical Research, 1999, 104, 17379-17389.	3.3	39

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37	Simulations of ring current proton pitch angle distributions. Journal of Geophysical Research, 1998, 103, 165-178.	3.3	51
38	Modeling of ring current formation and decay: A review. Geophysical Monograph Series, 1997, , 173-186.	0.1	26
39	Observations of iron, silicon, and other heavy ions in the geostationary altitude region during late March 1991. Journal of Geophysical Research, 1996, 101, 24707-24718.	3.3	22
40	CRRES observations of the composition of the ring-current ion populations. Advances in Space Research, 1996, 17, 17-24.	2.6	40
41	Stormtime ring current and radiation belt ion transport: Simulations and interpretations. Geophysical Monograph Series, 1995, , 311-323.	0.1	1
42	Bounce-averaged Hamiltonian for charged particles in an axisymmetric but nondipolar model magnetosphere. Journal of Geophysical Research, 1995, 100, 5627.	3.3	11
43	Simulations of phase space distributions of storm time proton ring current. Journal of Geophysical Research, 1994, 99, 5745.	3.3	181
44	Stormtime transport of ring current and radiation belt ions. Journal of Geophysical Research, 1993, 98, 3835-3849.	3.3	95
45	Energy content of stormtime ring current from phase space mapping simulations. Geophysical Research Letters, 1993, 20, 1727-1730.	4.0	4
46	Ion radial diffusion in an electrostatic impulse model for stormtime ring current formation. Geophysical Research Letters, 1992, 19, 621-624.	4.0	22
47	Dynamical polar wind and its response to kinetic ion heating. Journal of Geophysical Research, 1992, 97, 19433-19447.	3.3	8
48	Plasma characteristics of upflowing ion beams in the polar cap region. Journal of Geophysical Research, 1990, 95, 3907-3924.	3.3	20
49	Heating of the polar wind due to ion beam instabilities. Journal of Geophysical Research, 1990, 95, 18949-18968.	3.3	14