Weichao Tu

List of Publications by Year
in descending order

35 papers	1,126 citations	516561 16 h-index	395590 33 g-index
35 all docs	35 docs citations	35 times ranked	830 citing authors

#	Article	IF	Citations
1	Eventâ€specific chorus wave and electron seed population models in DREAM3D using the Van Allen Probes. Geophysical Research Letters, 2014, 41, 1359-1366.	1.5	136
2	Modeling radiation belt electron dynamics during GEM challenge intervals with the DREAM3D diffusion model. Journal of Geophysical Research: Space Physics, 2013, 118, 6197-6211.	0.8	111
3	On the calculation of electric diffusion coefficient of radiation belt electrons with in situ electric field measurements by THEMIS. Geophysical Research Letters, 2016, 43, 1023-1030.	1.5	90
4	Understanding the Mechanisms of Radiation Belt Dropouts Observed by Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 9858-9879.	0.8	83
5	Stormâ€dependent radiation belt electron dynamics. Journal of Geophysical Research, 2009, 114, .	3.3	78
6	First results from CSSWE CubeSat: Characteristics of relativistic electrons in the nearâ€Earth environment during the October 2012 magnetic storms. Journal of Geophysical Research: Space Physics, 2013, 118, 6489-6499.	0.8	65
7	Quantifying radial diffusion coefficients of radiation belt electrons based on global MHD simulation and spacecraft measurements. Journal of Geophysical Research, 2012, 117, .	3.3	62
8	Quantification of the precipitation loss of radiation belt electrons observed by SAMPEX. Journal of Geophysical Research, 2010, 115, .	3.3	61
9	A Statistical Survey of Radiation Belt Dropouts Observed by Van Allen Probes. Geophysical Research Letters, 2018, 45, 8035-8043.	1.5	49
10	A nonstorm time enhancement of relativistic electrons in the outer radiation belt. Geophysical Research Letters, 2014, 41, 7-12.	1.5	47
11	RAMâ€SCB simulations of electron transport and plasma wave scattering during the October 2012 â€œdoubleâ€dipâ€storm. Journal of Geophysical Research: Space Physics, 2016, 121, 8712-8727.	0.8	41
12	Modeling the Magnetopause Shadowing Loss During the June 2015 Dropout Event. Geophysical Research Letters, 2019, 46, 9388-9396.	1.5	37
13	Multispacecraft observations of a foreshock-induced magnetopause disturbance exhibiting distinct plasma flows and an intense density compression. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
14	Evolution of relativistic outer belt electrons during an extended quiescent period. Journal of Geophysical Research: Space Physics, 2014, 119, 9558-9566.	0.8	28
15	Magnetic field power spectra and magnetic radial diffusion coefficients using CRRES magnetometer data. Journal of Geophysical Research: Space Physics, 2015, 120, 973-995.	0.8	25
16	Colorado Student Space Weather Experiment: Differential Flux Measurements of Energetic Particles in a Highly Inclined Low Earth Orbit. Geophysical Monograph Series, 0, , 385-404.	0.1	19
17	Simultaneous eventâ€specific estimates of transport, loss, and source rates for relativistic outer radiation belt electrons. Journal of Geophysical Research: Space Physics, 2017, 122, 3354-3373.	0.8	18
18	Diffuse Auroral Electron Scattering by Electrostatic Electron Cyclotron Harmonic Waves in the Dayside Magnetosphere. Geophysical Research Letters, 2021, 48, e2020GL092208.	1.5	14

#	Article	IF	Citations
19	Quantifying the Precipitation Loss of Radiation Belt Electrons During a Rapid Dropout Event. Journal of Geophysical Research: Space Physics, 2017, 122, 10,287.	0.8	13
20	Estimating the Azimuthal Mode Structure of ULF Waves Based on Multiple GOES Satellite Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 5009-5026.	0.8	13
21	On energetic electrons (>38 keV) in the central plasma sheet: Data analysis and modeling. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	12
22	Modeling the loss of inner belt protons by magnetic field line curvature scattering. Journal of Geophysical Research: Space Physics, 2014, 119, 5638-5650.	0.8	12
23	On the Use of Different Magnetic Field Models for Simulating the Dynamics of the Outer Radiation Belt Electrons During the October 1990 Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 6453-6486.	0.8	12
24	Quantitative Assessment of Radiation Belt Modeling. Journal of Geophysical Research: Space Physics, 2019, 124, 898-904.	0.8	11
25	Adiabatic effects on radiation belt electrons at low altitude. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
26	POES/MEPED Angular Response Functions and the Precipitating Radiation Belt Electron Flux. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028240.	0.8	10
27	Effects of magnetic drift shell splitting on electron diffusion in the radiation belts. Journal of Geophysical Research: Space Physics, 2016, 121, 11,985.	0.8	7
28	Van Allen Probes Observations of Multiâ€MeV Electron Driftâ€Periodic Flux Oscillations in Earth's Outer Radiation Belt During the March 2017 Event. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029284.	0.8	7
29	Quantifying Eventâ€Specific Radial Diffusion Coefficients of Radiation Belt Electrons With the PPMLRâ€MHD Simulation. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027634.	0.8	6
30	Simulation of Plasma Emission in Magnetized Plasmas. Astrophysical Journal, 2022, 924, 36.	1.6	6
31	Quantifying the Effect of Magnetic Field Line Curvature Scattering on the Loss of Ring Current Ions. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	5
32	Comparison of energetic electron flux and phase space density in the magnetosheath and in the magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	3
33	NOAA/POES Observation of the Sources of the Relativistic Electron in the Magnetosphere. Chinese Journal of Geophysics, 2007, 50, 1407-1413.	0.2	2
34	Modeling the Dynamics of Energetic Protons in Earth's Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
35	Highâ€Fidelity Analysis of ULF Wave Mode Structure Following Interplanetary Shock Compression of the Dayside Magnetopause Using MMS Multiâ€Point Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1