

Chao Shen

List of Publications by Year in descending order

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72
papers

1,833
citations

236925

25
h-index

289244

40
g-index

80
all docs

80
docs citations

80
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensional analysis of observed structures using multipoint magnetic field measurements: Application to Cluster. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	133
2	Motion of observed structures calculated from multi-point magnetic field measurements: Application to Cluster. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	109
3	Analyses on the geometrical structure of magnetic field in the current sheet based on cluster measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	99
4	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	4.0	81
5	Global view of dayside magnetic reconnection with the duskâ€dawn IMF orientation: A statistical study for Double Star and Cluster data. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	60
6	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2014, 41, 229-235.	4.0	60
7	Magnetic field rotation analysis and the applications. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	58
8	Magnetic configurations of the tilted current sheets in magnetotail. <i>Annales Geophysicae</i> , 2008, 26, 3525-3543.	1.6	56
9	Statistical survey on the magnetic structure in magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	55
10	Cluster and Double Star multipoint observations of a plasma bubble. <i>Annales Geophysicae</i> , 2009, 27, 725-743.	1.6	54
11	Bounceâ€averaged advection and diffusion coefficients for monochromatic electromagnetic ion cyclotron wave: Comparison between testâ€particle and quasiâ€linear models. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	49
12	Flattened current sheet and its evolution in substorms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
13	Plasmatrough exohiss waves observed by Van Allen Probes: Evidence for leakage from plasmasphere and resonant scattering of radiation belt electrons. <i>Geophysical Research Letters</i> , 2015, 42, 1012-1019.	4.0	40
14	The analytic properties of the flapping current sheets in the earth magnetotail. <i>Planetary and Space Science</i> , 2010, 58, 1215-1229.	1.7	37
15	Kelvinâ€Helmholtz vortices observed by THEMIS at the duskside of the magnetopause under southward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2014, 41, 4427-4434.	4.0	37
16	Quantifying the relative contributions of substorm injections and chorus waves to the rapid outward extension of electron radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,023.	2.4	37
17	Southâ€north asymmetry of fieldâ€aligned currents in the magnetotail observed by Cluster. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
18	Disappearance of plasmaspheric hiss following interplanetary shock. <i>Geophysical Research Letters</i> , 2015, 42, 3129-3140.	4.0	34

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19	Profile of strong magnetic field y component in magnetotail current sheets. Journal of Geophysical Research, 2012, 117, .	3.3	33
20	Direct calculation of the ring current distribution and magnetic structure seen by Cluster during geomagnetic storms. Journal of Geophysical Research: Space Physics, 2014, 119, 2458-2465.	2.4	32
21	Simultaneous field-aligned currents at Swarm and Cluster satellites. Geophysical Research Letters, 2015, 42, 3683-3691.	4.0	32
22	Spatial gradients from irregular, multiple-point spacecraft configurations. Journal of Geophysical Research, 2012, 117, .	3.3	31
23	The Magnetic Field Structure of Mercury's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 548-566.	2.4	31
24	Multiple Flux Rope Events at the High-Latitude Magnetopause: Cluster/Rapid Observation on 26 January, 2001. Surveys in Geophysics, 2005, 26, 193-214.	4.6	28
25	Latitudinal dependence of nonlinear interaction between electromagnetic ion cyclotron wave and radiation belt relativistic electrons. Journal of Geophysical Research: Space Physics, 2013, 118, 3188-3202.	2.4	28
26	Near-Earth substorm features from multiple satellite observations. Journal of Geophysical Research, 2008, 113, .	3.3	26
27	Nonlinear interaction between ring current protons and electromagnetic ion cyclotron waves. Journal of Geophysical Research, 2012, 117, .	3.3	25
28	Time delay of interplanetary magnetic field penetration into Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2015, 120, 3406-3414.	2.4	25
29	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. Geophysical Research Letters, 2009, 36, .	4.0	24
30	Thin current sheets in the presence of a guiding magnetic field in Earth's magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	24
31	The force-free configuration of flux ropes in geomagnetotail: Cluster observations. Journal of Geophysical Research: Space Physics, 2014, 119, 6327-6341.	2.4	24
32	Determining the full magnetic field gradient from two spacecraft measurements under special constraints. Journal of Geophysical Research, 2012, 117, .	3.3	19
33	Two different types of plasmoids in the plasma sheet: Cluster multisatellite analysis application. Journal of Geophysical Research: Space Physics, 2013, 118, 5437-5444.	2.4	19
34	The coupling mode between Kelvin-Helmholtz and resistive instabilities in compressible plasmas. Physics of Plasmas, 1999, 6, 2883-2886.	1.9	18
35	Method for inferring the axis orientation of cylindrical magnetic flux rope based on single-point measurement. Journal of Geophysical Research: Space Physics, 2013, 118, 271-283.	2.4	18
36	Storm time current distribution in the inner equatorial magnetosphere: THEMIS observations. Journal of Geophysical Research: Space Physics, 2016, 121, 5250-5259.	2.4	18

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37	Curvature Technique and Applications. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029538.	2.4	18
38	The Distribution of Two Flapping Types of Magnetotail Current Sheet: Implication for the Flapping Mechanism. Journal of Geophysical Research: Space Physics, 2018, 123, 7413-7423.	2.4	17
39	Tearing mode with strong flow shear in the viscosity-dominated limit. Physics of Plasmas, 1996, 3, 4301-4303.	1.9	16
40	A physics-based study of the Dst-AL relationship. Journal of Geophysical Research, 2002, 107, SMP 4-1.	3.3	16
41	TC1 and Cluster observation of an FTE on 4 January 2005: A close conjunction. Geophysical Research Letters, 2007, 34, .	4.0	16
42	First in situ evidence of electron pitch angle scattering due to magnetic field line curvature in the ion diffusion region. Journal of Geophysical Research: Space Physics, 2016, 121, 4103-4110.	2.4	15
43	New approach for determining the normal of the bow shock based on Cluster four-point magnetic field measurements. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	14
44	Magnetotail dipolarization and associated current systems observed by Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	14
45	Is the flow-aligned component of IMF really able to impact the magnetic field structure of Venusian magnetotail?. Journal of Geophysical Research: Space Physics, 2016, 121, 10,978.	2.4	13
46	Electron structure of the magnetopause boundary layer: Cluster/Double Star observations. Journal of Geophysical Research, 2008, 113, .	3.3	12
47	Cluster Observations of a Dispersive Flapping Event of Magnetotail Current Sheet. Journal of Geophysical Research: Space Physics, 2018, 123, 5571-5579.	2.4	12
48	Properties of the neutral energetic atoms emitted from Earth's ring current region. Physics of Plasmas, 2002, 9, 3984-3994.	1.9	11
49	Radial distribution of magnetic field in earth magnetotail current sheet. Planetary and Space Science, 2014, 103, 273-285.	1.7	11
50	Statistical survey on the magnetic field in magnetotail current sheets: Cluster observations. Science Bulletin, 2010, 55, 2542-2547.	1.7	10
51	The Flapping Motion of Mercury's Magnetotail Current Sheet: MESSENGER Observations. Geophysical Research Letters, 2020, 47, e2019GL086011.	4.0	10
52	The magnetic configuration of the high-latitude cusp and dayside magnetopause under strong magnetic shears. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
53	Multiple Flux Rope Events at the High-Latitude Magnetopause on January 26, 2001: Current Density Calculation. Chinese Journal of Geophysics, 2004, 47, 635-643.	0.2	8
54	Tailward leap of multiple expansions of the plasma sheet during a moderately intense substorm: THEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	8

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55	Iterative inversion of global magnetospheric information from energy neutral atom (ENA) images recorded by the TC-2/NUADU instrument. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1731-1744.	0.9	6
56	Evolution of the storm magnetic field disturbance around Earth's surface and the associated ring current as deduced from multiple ground observatories. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 564-580.	2.4	6
57	Determination of the Configurations of Boundaries in Space. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028163.	2.4	6
58	A General Algorithm for the Linear and Quadratic Gradients of Physical Quantities Based on 10 or More Point Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029121.	2.4	6
59	Nonlinear Magnetic Gradients and Complete Magnetic Geometry From Multispacecraft Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028846.	2.4	6
60	Properties of the tearing mode in periodic current sheets. <i>Physics of Plasmas</i> , 1998, 5, 2466-2468.	1.9	5
61	The loss rates of O ⁺ in the inner magnetosphere caused by both magnetic field line curvature scattering and charge exchange reactions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	5
62	Study on the Curvature and Gradient of the Magnetic Field in Earth's Cusp Region Based on the Magnetic Curvature Analysis Method. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3794-3805.	2.4	5
63	A Single-Point Method to Quantitatively Diagnose the Magnetotail Flapping Motion. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028200.	2.4	5
64	Solar wind transport into magnetosphere caused by magnetic reconnection at high latitude magnetopause during northward IMF: Cluster-DSP conjunction observations. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1677-1684.	0.9	4
65	Double Star TC-1 observation of the earthward flowing plasmoids in the near magnetotail. <i>Science Bulletin</i> , 2007, 52, 1843-1848.	1.7	3
66	Examining the Magnetic Geometry of Magnetic Flux Ropes from the View of Single-point Analysis. <i>Astrophysical Journal</i> , 2020, 903, 53.	4.5	3
67	A New Technique to Diagnose the Geomagnetic Field Based on a Single Circular Current Loop Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022778.	3.4	3
68	Surveys on magnetospheric plasmas based on the Double Star Project (DSP) exploration. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1639-1647.	0.9	2
69	New progress of Double Star-Cluster joint exploration and study. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1565-1579.	0.9	2
70	Low-frequency waves in magnetic reconnection. <i>Science Bulletin</i> , 2012, 57, 1461-1466.	1.7	1
71	Continuous tailward flow in the near-Earth magnetotail observed by TC-1 satellite. <i>Science Bulletin</i> , 2007, 52, 1980-1985.	1.7	0
72	Eigenmodes of quasi-static magnetic islands in current sheet. <i>Physics of Plasmas</i> , 2011, 18, 122110.	1.9	0