

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
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80
all docs

80
docs citations

80
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	A Single-Point Method to Quantitatively Diagnose the Magnetotail Flapping Motion. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028200.	2.4	5
2	A General Algorithm for the Linear and Quadratic Gradients of Physical Quantities Based on 10 or More Point Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029121.	2.4	6
3	Nonlinear Magnetic Gradients and Complete Magnetic Geometry From Multispacecraft Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028846.	2.4	6
4	A New Technique to Diagnose the Geomagnetic Field Based on a Single Circular Current Loop Model. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022778.	3.4	3
5	Curlometer Technique and Applications. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029538.	2.4	18
6	Determination of the Configurations of Boundaries in Space. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028163.	2.4	6
7	The Flapping Motion of Mercury's Magnetotail Current Sheet: MESSENGER Observations. Geophysical Research Letters, 2020, 47, e2019GL086011.	4.0	10
8	Examining the Magnetic Geometry of Magnetic Flux Ropes from the View of Single-point Analysis. Astrophysical Journal, 2020, 903, 53.	4.5	3
9	The Magnetic Field Structure of Mercury's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 548-566.	2.4	31
10	Study on the Curvature and Gradient of the Magnetic Field in Earth's Cusp Region Based on the Magnetic Curvature Analysis Method. Journal of Geophysical Research: Space Physics, 2018, 123, 3794-3805.	2.4	5
11	Cluster Observations of a Dispersive Flapping Event of Magnetotail Current Sheet. Journal of Geophysical Research: Space Physics, 2018, 123, 5571-5579.	2.4	12
12	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
13	Storm time current distribution in the inner equatorial magnetosphere: THEMIS observations. Journal of Geophysical Research: Space Physics, 2016, 121, 5250-5259.	2.4	18
14	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	4.0	81
15	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
16	First in situ evidence of electron pitch angle scattering due to magnetic field line curvature in the lon diffusion region. Journal of Geophysical Research: Space Physics, 2016, 121, 4103-4110.	2.4	15
17	Evolution of the storm magnetic field disturbance around Earth's surface and the associated ring current as deduced from multiple ground observatories. Journal of Geophysical Research: Space Physics, 2015, 120, 564-580.	2.4	6
18	Time delay of interplanetary magnetic field penetration into Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2015, 120, 3406-3414.	2.4	25

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19	Disappearance of plasmaspheric hiss following interplanetary shock. <i>Geophysical Research Letters</i> , 2015, 42, 3129-3140.	4.0	34
20	Simultaneous field-aligned currents at Swarm and Cluster satellites. <i>Geophysical Research Letters</i> , 2015, 42, 3683-3691.	4.0	32
21	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
22	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
23	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
24	Direct calculation of the ring current distribution and magnetic structure seen by Cluster during geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2458-2465.	2.4	32
25	The force-free configuration of flux ropes in geomagnetotail: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6327-6341.	2.4	24
26	Radial distribution of magnetic field in earth magnetotail current sheet. <i>Planetary and Space Science</i> , 2014, 103, 273-285.	1.7	11
27	Kelvin-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
28	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
29	Method for inferring the axis orientation of cylindrical magnetic flux rope based on single-point measurement. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 271-283.	2.4	18
30	Two different types of plasmoids in the plasma sheet: Cluster multisatellite analysis application. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5437-5444.	2.4	19
31	Latitudinal dependence of nonlinear interaction between electromagnetic ion cyclotron wave and radiation belt relativistic electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3188-3202.	2.4	28
32	Nonlinear interaction between ring current protons and electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
33	Spatial gradients from irregular, multiple-point spacecraft configurations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
34	Determining the full magnetic field gradient from two spacecraft measurements under special constraints. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
35	Bounce-averaged advection and diffusion coefficients for monochromatic electromagnetic ion cyclotron wave: Comparison between test-particle and quasi-linear models. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	49
36	Thin current sheets in the presence of a guiding magnetic field in Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24

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37	Profile of strong magnetic field B_y component in magnetotail current sheets. Journal of Geophysical Research, 2012, 117, .	3.3	33
38	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
39	Low-frequency waves in magnetic reconnection. Science Bulletin, 2012, 57, 1461-1466.	1.7	1
40	Statistical survey on the magnetic structure in magnetotail current sheets. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	55
41	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
42	Eigenmodes of quasi-static magnetic islands in current sheet. Physics of Plasmas, 2011, 18, 122110.	1.9	0
43	Statistical survey on the magnetic field in magnetotail current sheets: Cluster observations. Science Bulletin, 2010, 55, 2542-2547.	1.7	10
44	The analytic properties of the flapping current sheets in the earth magnetotail. Planetary and Space Science, 2010, 58, 1215-1229.	1.7	37
45	South-north asymmetry of field-aligned currents in the magnetotail observed by Cluster. Journal of Geophysical Research, 2010, 115, .	3.3	34
46	Cluster and Double Star multipoint observations of a plasma bubble. Annales Geophysicae, 2009, 27, 725-743.	1.6	54
47	Tracing solar wind plasma entry into the magnetosphere using ion-electron temperature ratio. Geophysical Research Letters, 2009, 36, .	4.0	24
48	Surveys on magnetospheric plasmas based on the Double Star Project (DSP) exploration. Science in China Series D: Earth Sciences, 2008, 51, 1639-1647.	0.9	2
49	Solar wind transport into magnetosphere caused by magnetic reconnection at high latitude magnetopause during northward IMF: Cluster-DSP conjunction observations. Science in China Series D: Earth Sciences, 2008, 51, 1677-1684.	0.9	4
50	Iterative inversion of global magnetospheric information from energy neutral atom (ENA) images recorded by the TC-2/NUADU instrument. Science in China Series D: Earth Sciences, 2008, 51, 1731-1744.	0.9	6
51	New progress of Double Star-Cluster joint exploration and study. Science in China Series D: Earth Sciences, 2008, 51, 1565-1579.	0.9	2
52	Magnetotail dipolarization and associated current systems observed by Cluster and Double Star. Journal of Geophysical Research, 2008, 113, .	3.3	14
53	Near-Earth substorm features from multiple satellite observations. Journal of Geophysical Research, 2008, 113, .	3.3	26
54	Electron structure of the magnetopause boundary layer: Cluster/Double Star observations. Journal of Geophysical Research, 2008, 113, .	3.3	12

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55	Flattened current sheet and its evolution in substorms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
56	Magnetic configurations of the tilted current sheets in magnetotail. <i>Annales Geophysicae</i> , 2008, 26, 3525-3543.	1.6	56
57	Magnetic field rotation analysis and the applications. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	58
58	TC1 and Cluster observation of an FTE on 4 January 2005: A close conjunction. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
59	New approach for determining the normal of the bow shock based on Cluster four-point magnetic field measurements. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	14
60	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
61	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
62	Continuous tailward flow in the near-Earth magnetotail observed by TC-1 satellite. <i>Science Bulletin</i> , 2007, 52, 1980-1985.	1.7	0
63	Motion of observed structures calculated from multi-point magnetic field measurements: Application to Cluster. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	109
64	Multiple Flux Rope Events at the High-Latitude Magnetopause: Cluster/Rapid Observation on 26 January, 2001. <i>Surveys in Geophysics</i> , 2005, 26, 193-214.	4.6	28
65	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
66	Multiple Flux Rope Events at the Highâ€Latitude Magnetopause on January 26, 2001: Current Density Calculation. <i>Chinese Journal of Geophysics</i> , 2004, 47, 635-643.	0.2	8
67	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
68	Properties of the neutral energetic atoms emitted from Earthâ€™s ring current region. <i>Physics of Plasmas</i> , 2002, 9, 3984-3994.	1.9	11
69	A physics-based study of theDst-ALrelationship. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 4-1.	3.3	16
70	The coupling mode between Kelvinâ€™Helmholtz and resistive instabilities in compressible plasmas. <i>Physics of Plasmas</i> , 1999, 6, 2883-2886.	1.9	18
71	Properties of the tearing mode in periodic current sheets. <i>Physics of Plasmas</i> , 1998, 5, 2466-2468.	1.9	5
72	Tearing mode with strong flow shear in the viscosityâ€dominated limit. <i>Physics of Plasmas</i> , 1996, 3, 4301-4303.	1.9	16