

Chijie Xiao

List of Publications by Year in descending order

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49
papers

1,330
citations

394421

19
h-index

345221

36
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50
all docs

50
docs citations

50
times ranked

1343
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling loop-top X-ray source and reconnection outflows in solar flares with intense lasers. <i>Nature Physics</i> , 2010, 6, 984-987.	16.7	155
2	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
3	In situ evidence for the structure of the magnetic null in a 3D reconnection event in the Earth's magnetotail. <i>Nature Physics</i> , 2006, 2, 478-483.	16.7	114
4	Mechanism of substorm current wedge formation: THEMIS observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	75
5	Interactions between magnetosonic waves and radiation belt electrons: Comparisons of quasi-linear calculations with test particle simulations. <i>Geophysical Research Letters</i> , 2014, 41, 4828-4834.	4.0	73
6	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1990-2000.	2.4	70
7	Inferring of flux rope orientation with the minimum variance analysis technique. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	63
8	Satellite observations of separator-line geometry of three-dimensional magnetic reconnection. <i>Nature Physics</i> , 2007, 3, 609-613.	16.7	62
9	Magnetic topologies of an in vivo FTE observed by Double Star/TC-1 at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2013, 40, 3502-3506.	4.0	62
10	Three-dimensional magnetic flux rope structure formed by multiple sequential X-line reconnection at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1904-1911.	2.4	48
11	THEMIS observations of substorms on 26 February 2008 initiated by magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
12	A Cluster measurement of fast magnetic reconnection in the magnetotail. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	42
13	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019, 10, 1040.	12.8	35
14	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. <i>Geophysical Research Letters</i> , 2018, 45, 527-537.	4.0	33
15	Electron Dynamics in Magnetosheath Mirror-Mode Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5561-5570.	2.4	33
16	A 1D Magnetolectric Sensor Array for Magnetic Sketching. <i>Advanced Materials Technologies</i> , 2019, 4, 1800484.	5.8	24
17	Separator reconnection with antiparallel/component features observed in magnetotail plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6116-6126.	2.4	23
18	OBSERVATIONS OF ALFVÉN AND SLOW WAVES IN THE SOLAR WIND NEAR 1 AU. <i>Astrophysical Journal</i> , 2015, 815, 122.	4.5	22

#	ARTICLE	IF	CITATIONS
19	The Parametric Decay Instability of Alfvén Waves in Turbulent Plasmas and the Applications in the Solar Wind. <i>Astrophysical Journal</i> , 2017, 842, 63.	4.5	21
20	MESSENGER Observations of Rapid and Impulsive Magnetic Reconnection in Mercury's Magnetotail. <i>Astrophysical Journal Letters</i> , 2018, 860, L20.	8.3	15
21	Plasma rotation in the Peking University Plasma Test device. <i>Review of Scientific Instruments</i> , 2016, 87, 11D610.	1.3	14
22	Effects of electron cyclotron current drive on magnetic islands in tokamak plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
23	Self-consistent kinetic model of nested electron- and ion-scale magnetic cavities in space plasmas. <i>Nature Communications</i> , 2020, 11, 5616.	12.8	13
24	<i>In-situ</i> observations of flux ropes formed in association with a pair of spiral nulls in magnetotail plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	11
25	Doping Si, Mg and Ca into GaN based on plasma stimulated room-temperature diffusion. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	11
26	Effects of out-of-plane shear flows on fast reconnection in a two-dimensional Hall magnetohydrodynamics model. <i>Physics of Plasmas</i> , 2012, 19, 032905.	1.9	10
27	2D profile of poloidal magnetic field diagnosed by a laser-driven ion-beam trace probe (LITP). <i>Review of Scientific Instruments</i> , 2016, 87, 11D608.	1.3	10
28	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. <i>Astrophysical Journal Letters</i> , 2020, 899, L31.	8.3	10
29	A new method of measuring the poloidal magnetic and radial electric fields in a tokamak using a laser-accelerated ion-beam trace probe. <i>Review of Scientific Instruments</i> , 2014, 85, 11E429.	1.3	8
30	Plasma waves around separatrix in collisionless magnetic reconnection with weak guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6309-6319.	2.4	8
31	Observations of the Beam-Driven Whistler Mode Waves in the Magnetic Reconnection Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028525.	2.4	8
32	GTC simulation of linear stability of tearing mode and a model magnetic island stabilization by ECCD in toroidal plasma. <i>Physics of Plasmas</i> , 2020, 27, 042507.	1.9	6
33	Calibration of AC Vector Magnetometer Based on Ellipsoid Fitting. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	6
34	Recent studies in satellite observations of three-dimensional magnetic reconnection. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 380-384.	0.9	5
35	The influence of out-of-plane shear flow on Hall magnetic reconnection and FTE generation. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4279-4288.	2.4	5
36	2D electron density profile measurement in tokamak by laser-accelerated ion-beam probe. <i>Review of Scientific Instruments</i> , 2014, 85, 11D860.	1.3	5

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37	Statistical study of magnetotail flux ropes near the lunar orbit. Science China Technological Sciences, 2016, 59, 1591-1596.	4.0	5
38	Ultra-Shallow Doping B, Mg, Ni, Cu, Mn, Cr and Fe into SiC with Very High Surface Concentrations Based on Plasma Stimulated Room-Temperature Diffusion. Journal of Materials Engineering and Performance, 2019, 28, 162-168.	2.5	5
39	Observation of a Large-Amplitude Slow Magnetosonic Wave in the Magnetosheath. Journal of Geophysical Research: Space Physics, 2019, 124, 10200-10208.	2.4	5
40	A Practicable Method for Calibrating a Magnetic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-6.	4.7	5
41	A three-dimensional model of spiral null pair to form ion-scale flux ropes in magnetic reconnection region observed by Cluster. Physics of Plasmas, 2019, 26, 112901.	1.9	4
42	Development of a multi-color gas puff imaging diagnostic on HL-2A tokamak. Review of Scientific Instruments, 2020, 91, 073505.	1.3	4
43	3D Reconnection Geometries With Magnetic Nulls: Multispacecraft Observations and Reconstructions. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
44	Recent progresses in theoretical studies and satellite observations for collisionless magnetic reconnection. Science Bulletin, 2012, 57, 1369-1374.	1.7	3
45	Conjunction of anti-parallel and component reconnection at the dayside MP: Cluster and Double Star coordinated observation on 6 April 2004. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	2
46	A terahertz signal enhancement implemented by subwavelength metallic grooves. Journal of Applied Physics, 2022, 132, 023101.	2.5	2
47	Neutron emission and fast ion simulation for high performance long pulses at EAST. Review of Scientific Instruments, 2021, 92, 043552.	1.3	0
48	Observations of an Electron-cold Ion Component Reconnection at the Edge of an Ion-scale Antiparallel Reconnection at the Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029390.	2.4	0
49	Analysis and modeling of laser-driven ion-beam trace probe diagnostics of poloidal magnetic fields in field-reversed configurations. Physics of Plasmas, 2022, 29, 062506.	1.9	0