

Chijie Xiao

List of Publications by Year in descending order

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49
papers

1,330
citations

394421

19
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345221

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docs citations

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times ranked

1343
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Reconnection Geometries With Magnetic Nulls: Multispacecraft Observations and Reconstructions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
2	Analysis and modeling of laser-driven ion-beam trace probe diagnostics of poloidal magnetic fields in field-reversed configurations. <i>Physics of Plasmas</i> , 2022, 29, 062506.	1.9	0
3	A terahertz signal enhancement implemented by subwavelength metallic grooves. <i>Journal of Applied Physics</i> , 2022, 132, 023101.	2.5	2
4	Calibration of AC Vector Magnetometer Based on Ellipsoid Fitting. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	6
5	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
6	Neutron emission and fast ion simulation for high performance long pulses at EAST. <i>Review of Scientific Instruments</i> , 2021, 92, 043552.	1.3	0
7	Observations of an Electron-Cold Ion Component Reconnection at the Edge of an Ion-scale Antiparallel Reconnection at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029390.	2.4	0
8	A Practicable Method for Calibrating a Magnetic Sensor Array. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	5
9	Development of a multi-color gas puff imaging diagnostic on HL-2A tokamak. <i>Review of Scientific Instruments</i> , 2020, 91, 073505.	1.3	4
10	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
11	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
12	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. <i>Astrophysical Journal Letters</i> , 2020, 899, L31.	8.3	10
13	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. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 162-168.	2.5	5
14	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019, 10, 1040.	12.8	35
15	A three-dimensional model of spiral null pair to form ion-scale flux ropes in magnetic reconnection region observed by Cluster. <i>Physics of Plasmas</i> , 2019, 26, 112901.	1.9	4
16	Observation of a Large-Amplitude Slow Magnetosonic Wave in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10200-10208.	2.4	5
17	A 1D Magnetolectric Sensor Array for Magnetic Sketching. <i>Advanced Materials Technologies</i> , 2019, 4, 1800484.	5.8	24
18	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. <i>Geophysical Research Letters</i> , 2018, 45, 527-537.	4.0	33

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19	MESSENGER Observations of Rapid and Impulsive Magnetic Reconnection in Mercury's Magnetotail. <i>Astrophysical Journal Letters</i> , 2018, 860, L20.	8.3	15
20	Electron Dynamics in Magnetosheath Mirror-Mode Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5561-5570.	2.4	33
21	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1990-2000.	2.4	70
22	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
23	Effects of electron cyclotron current drive on magnetic islands in tokamak plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
24	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
25	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
26	Plasma rotation in the Peking University Plasma Test device. <i>Review of Scientific Instruments</i> , 2016, 87, 11D610.	1.3	14
27	Statistical study of magnetotail flux ropes near the lunar orbit. <i>Science China Technological Sciences</i> , 2016, 59, 1591-1596.	4.0	5
28	<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
29	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
30	OBSERVATIONS OF ALFVÉN AND SLOW WAVES IN THE SOLAR WIND NEAR 1 AU. <i>Astrophysical Journal</i> , 2015, 815, 122.	4.5	22
31	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
32	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
33	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
34	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
35	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
36	Magnetic topologies of an <i>in vivo</i> FTE observed by Double Star/TC-1 at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2013, 40, 3502-3506.	4.0	62

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37	The influence of out-of-plane shear flow on Hall magnetic reconnection and FTE generation. Journal of Geophysical Research: Space Physics, 2013, 118, 4279-4288.	2.4	5
38	Effects of out-of-plane shear flows on fast reconnection in a two-dimensional Hall magnetohydrodynamics model. Physics of Plasmas, 2012, 19, 032905.	1.9	10
39	Mechanism of substorm current wedge formation: THEMIS observations. Geophysical Research Letters, 2012, 39, .	4.0	75
40	Recent progresses in theoretical studies and satellite observations for collisionless magnetic reconnection. Science Bulletin, 2012, 57, 1369-1374.	1.7	3
41	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
42	Modelling loop-top X-ray source and reconnection outflows in solar flares with intense lasers. Nature Physics, 2010, 6, 984-987.	16.7	155
43	THEMIS observations of substorms on 26 February 2008 initiated by magnetotail reconnection. Journal of Geophysical Research, 2010, 115, .	3.3	44
44	A Cluster measurement of fast magnetic reconnection in the magnetotail. Geophysical Research Letters, 2007, 34, .	4.0	42
45	Satellite observations of separator-line geometry of three-dimensional magnetic reconnection. Nature Physics, 2007, 3, 609-613.	16.7	62
46	Recent studies in satellite observations of three-dimensional magnetic reconnection. Science in China Series D: Earth Sciences, 2007, 50, 380-384.	0.9	5
47	In situ evidence for the structure of the magnetic null in a 3D reconnection event in the Earth's magnetotail. Nature Physics, 2006, 2, 478-483.	16.7	114
48	Dimensional analysis of observed structures using multipoint magnetic field measurements: Application to Cluster. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	133
49	Inferring of flux rope orientation with the minimum variance analysis technique. Journal of Geophysical Research, 2004, 109, .	3.3	63