

Xianzhe Jia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

2,368
citations

30
h-index

44
g-index

116
ext. papers

2,669
ext. citations

3.7
avg, IF

4.99
L-index

#	Paper	IF	Citations
106	Magnetospheric Ion Bombardment of Europa's Surface. <i>Planetary Science Journal</i> , 2022 , 3, 5	2.9	2
105	Neptune's Pole-on Magnetosphere: Dayside Reconnection Observations by Voyager 2. <i>Planetary Science Journal</i> , 2022 , 3, 76	2.9	
104	A 3D MHD-Particle Tracing Model of Na ⁺ Energization on Mercury's Dayside. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029587	2.6	1
103	Magnetic Flux Circulation in the Saturnian Magnetosphere as Constrained by Cassini Observations in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029304	2.6	2
102	Comment on "An Active Plume Eruption on Europa During Galileo Flyby E26 as Indicated by Energetic Proton Depletions" by Huybrighs et al.. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091550	4.9	3
101	Global Magnetohydrodynamic Simulations: Performance Quantification of Magnetopause Distances and Convection Potential Predictions. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	2
100	Multi-Fluid MHD Simulations of Europa's Plasma Interaction Under Different Magnetospheric Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028888	2.6	4
99	The Magnetosphere of Ganymede. <i>Geophysical Monograph Series</i> , 2021 , 557-573	1.1	4
98	Juno Observations of Ion-Inertial Scale Flux Ropes in the Jovian Magnetotail. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL089721	4.9	2
97	What sustained multi-disciplinary research can achieve: The space weather modeling framework. <i>Journal of Space Weather and Space Climate</i> , 2021 , 11, 42	2.5	10
96	Analytical Assessment of Kelvin-Helmholtz Instability Growth at Ganymede's Upstream Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029338	2.6	0
95	Magnetohydrodynamic modelling of star-planet interaction and associated auroral radio emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 5044-5055	4.3	2
94	Large-Amplitude Oscillatory Motion of Mercury's Cross-Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027783	2.6	5
93	Incorporating Physical Knowledge Into Machine Learning for Planetary Space Physics. <i>Frontiers in Astronomy and Space Sciences</i> , 2020 , 7,	3.8	5
92	Simulations of ion sputtering at Ganymede. <i>Icarus</i> , 2020 , 351, 113918	3.8	5
91	MESSENGER Observations of Mercury's Nightside Magnetosphere Under Extreme Solar Wind Conditions: Reconnection-Generated Structures and Steady Convection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027490	2.6	7
90	Kinetic Simulations of the Jovian Energetic Ion Circulation around Ganymede. <i>Astrophysical Journal</i> , 2020 , 900, 74	4.7	5

89	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	39
88	Flux Transfer Event Showers at Mercury: Dependence on Plasma and Magnetic Shear and Their Contribution to the Dungey Cycle. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089784	4.9	9
87	Reconnection-Driven Dynamics at Ganymede's Upstream Magnetosphere: 3-D Global Hall MHD and MHD-EPIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028162	2.6	4
86	Favorable Conditions for Magnetic Reconnection at Ganymede's Upstream Magnetopause. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086228	4.9	7
85	Constraining Ganymede's neutral and plasma environments through simulations of its ionosphere and Galileo observations. <i>Icarus</i> , 2020 , 343, 113691	3.8	6
84	First 3D test particle model of Ganymede's ionosphere. <i>Icarus</i> , 2019 , 330, 42-59	3.8	11
83	Are Saturn's Interchange Injections Organized by Rotational Longitude?. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1806-1822	2.6	9
82	MESSENGER Observations and Global Simulations of Highly Compressed Magnetosphere Events at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 229-247	2.6	33
81	Global MHD simulations of the Response of Jupiter's Magnetosphere and Ionosphere to Changes in the Solar Wind and IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5317-5341	2.6	14
80	MESSENGER Observations of Disappearing Dayside Magnetosphere Events at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6613-6635	2.6	35
79	Embedded Kinetic Simulation of Ganymede's Magnetosphere: Improvements and Inferences. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5441-5460	2.6	11
78	Studying Dawn-Dusk Asymmetries of Mercury's Magnetotail Using MHD-EPIC Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8954-8973	2.6	15
77	Survey of Magnetosheath Plasma Properties at Saturn and Inference of Upstream Flow Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2034	2.6	11
76	Coupled SKR Emissions in Saturn's Northern and Southern Ionospheres. <i>Geophysical Research Letters</i> , 2018 , 45, 2893-2900	4.9	2
75	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	25
74	Hall effect in the coma of 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 2835-2841	4.3	10
73	The Ring Current of Saturn. <i>Geophysical Monograph Series</i> , 2018 , 139-154	1.1	5
72	A Comparative Study of the Proton Properties of Magnetospheric Substorms at Earth and Mercury in the Near Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 7933-7941	4.9	13

71	Statistical Study of the Energetic Proton Environment at Titan's Orbit From the Cassini Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4820-4834	2.6	4
70	Transport of Mass and Energy in Mercury's Plasma Sheet. <i>Geophysical Research Letters</i> , 2018 , 45, 12,163-170	10	
69	The Mysterious Periodicities of Saturn 2018 , 97-125		1
68	Global Configuration and Seasonal Variations of Saturn's Magnetosphere 2018 , 126-165		2
67	Interchange Injections at Saturn: Statistical Survey of Energetic H ⁺ Sudden Flux Intensifications. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4692-4711	2.6	26
66	Evidence of a plume on Europa from Galileo magnetic and plasma wave signatures. <i>Nature Astronomy</i> , 2018 , 2, 459-464	12.1	105
65	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2589-2604	2.6	13
64	Mercury's cross-tail current sheet: Structure, X-line location and stress balance. <i>Geophysical Research Letters</i> , 2017 , 44, 678-686	4.9	40
63	Global Three-Dimensional Simulation of Earth's Dayside Reconnection Using a Two-Way Coupled Magnetohydrodynamics With Embedded Particle-in-Cell Model: Initial Results. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,318	2.6	50
62	A New 3D Multi-fluid Dust Model: A Study of the Effects of Activity and Nucleus Rotation on Dust Grain Behavior at Comet 67P/Churyumov-Gerasimenko. <i>Astrophysical Journal</i> , 2017 , 850, 72	4.7	5
61	Energy-banded ions in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5181-5202	2.6	1
60	Coupling between Mercury and its nightside magnetosphere: Cross-tail current sheet asymmetry and substorm current wedge formation. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8419-8433	2.6	23
59	Large-scale solar wind flow around Saturn's nonaxisymmetric magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9198-9206	2.6	7
58	Spinning, breathing, and flapping: Periodicities in Saturn's middle magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 393-416	2.6	17
57	Evidence for periodic variations in the thickness of Saturn's nightside plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 280-292	2.6	29
56	Dawn-dusk asymmetries in rotating magnetospheres: Lessons from modeling Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1413-1424	2.6	22
55	Extended magnetohydrodynamics with embedded particle-in-cell simulation of Ganymede's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1273-1293	2.6	64
54	Loss rates of Europa's tenuous atmosphere. <i>Planetary and Space Science</i> , 2016 , 130, 14-23	2	13

53	Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail. <i>Nature Physics</i> , 2016 , 12, 268-271	16.2	31
52	Simulation Studies of Plasma Transport at Earth, Jupiter and Saturn. <i>Astrophysics and Space Science Library</i> , 2016 , 345-372	0.3	2
51	A multi-scale magnetotail reconnection event at Saturn and associated flows: Cassini/UVIS observations. <i>Icarus</i> , 2016 , 263, 75-82	3.8	21
50	Effects of radial motion on interchange injections at Saturn. <i>Icarus</i> , 2016 , 264, 342-351	3.8	29
49	Solar Wind and Internally Driven Dynamics: Influences on Magnetodiscs and Auroral Responses. <i>Space Sciences Series of ISSI</i> , 2016 , 51-97	0.1	1
48	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Sciences Series of ISSI</i> , 2016 , 27-89	0.1	
47	Jupiter's Magnetosphere: Plasma Sources and Transport. <i>Space Sciences Series of ISSI</i> , 2016 , 209-236	0.1	
46	Plasma Sources in Planetary Magnetospheres: Mercury. <i>Space Sciences Series of ISSI</i> , 2016 , 91-144	0.1	
45	Saturn Plasma Sources and Associated Transport Processes. <i>Space Sciences Series of ISSI</i> , 2016 , 237-283	0.1	1
44	A possible mechanism for the formation of magnetic field dropouts in the coma of 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S468-S475	4.3	6
43	A NEW 3D MULTI-FLUID MODEL: A STUDY OF KINETIC EFFECTS AND VARIATIONS OF PHYSICAL CONDITIONS IN THE COMETARY COMA. <i>Astrophysical Journal</i> , 2016 , 833, 160	4.7	9
42	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2016 , 43, 6713-6723	4.9	31
41	MESSENGER observations of cusp plasma filaments at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8260-8285	2.6	24
40	Four-fluid MHD simulations of the plasma and neutral gas environment of comet 67P/Churyumov-Gerasimenko near perihelion. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4247-4268	2.6	32
39	Global MHD Modeling of the Coupled Magnetosphere-Ionosphere System at Saturn. <i>Geophysical Monograph Series</i> , 2016 , 319-334	1.1	2
38	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Science Reviews</i> , 2015 , 192, 27-89	7.5	13
37	The H ₂ O and O ₂ exospheres of Ganymede: The result of a complex interaction between the jovian magnetospheric ions and the icy moon. <i>Icarus</i> , 2015 , 245, 306-319	3.8	39
36	Global MHD simulations of Mercury's magnetosphere with coupled planetary interior: Induction effect of the planetary conducting core on the global interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4763-4775	2.6	71

35	Self-consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3503-3524	2.6	32
34	Saturn Plasma Sources and Associated Transport Processes. <i>Space Science Reviews</i> , 2015 , 192, 237-283	7.5	17
33	MESSENGER observations of Alfvénic and compressional waves during Mercury's substorms. <i>Geophysical Research Letters</i> , 2015 , 42, 6189-6198	4.9	16
32	Satellite Magnetotails. <i>Geophysical Monograph Series</i> , 2015 , 135-148	1.1	3
31	Field dipolarization in Saturn's magnetotail with planetward ion flows and energetic particle flow bursts: Evidence of quasi-steady reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3603-3617	2.6	19
30	Plasmapause formation at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2571-2583	2.6	23
29	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015 , 583, A7	5.1	85
28	Solar Wind and Internally Driven Dynamics: Influences on Magnetodiscs and Auroral Responses. <i>Space Science Reviews</i> , 2015 , 187, 51-97	7.5	35
27	Plasma Sources in Planetary Magnetospheres: Mercury. <i>Space Science Reviews</i> , 2015 , 192, 91-144	7.5	33
26	Jupiter's Magnetosphere: Plasma Sources and Transport. <i>Space Science Reviews</i> , 2015 , 192, 209-236	7.5	14
25	The search for a subsurface ocean in Ganymede with Hubble Space Telescope observations of its auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1715-1737	2.6	95
24	The latitudinal structure of the nightside outer magnetosphere of Saturn as revealed by velocity moments of thermal ions. <i>Annales Geophysicae</i> , 2015 , 33, 1195-1202	2	3
23	Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. <i>Space Science Reviews</i> , 2014 , 182, 85-154	7.5	36
22	The magnetic structure of Saturn's magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5651-5661	2.6	19
21	Ion composition in interchange injection events in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9761-9772	2.6	22
20	Control of periodic variations in Saturn's magnetosphere by compressional waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8030-8045	2.6	21
19	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8087-8116	2.6	100
18	An MHD model of Ganymede's mini-magnetosphere suggests that the heliosphere forms in a sub-Alfvénic flow. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6839-6846	2.6	11

17	Aurora on Ganymede. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2043-2054	2.6	51
16	Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. <i>Annales Geophysicae</i> , 2013 , 31, 817-833	2	28
15	ULF waves in Ganymede's upstream magnetosphere. <i>Annales Geophysicae</i> , 2013 , 31, 45-59	2	5
14	Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		50
13	Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere: Magnetotail response to dual sources. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		59
12	Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		98
11	Evidence of a global magma ocean in Io's interior. <i>Science</i> , 2011 , 332, 1186-9	33.3	92
10	Dynamics of Ganymede's magnetopause: Intermittent reconnection under steady external conditions. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		38
9	Medicean Moons Sailing Through Plasma Seas: Challenges in Establishing Magnetic Properties. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 58-70	0.1	
8	Magnetic Fields of the Satellites of Jupiter and Saturn. <i>Space Science Reviews</i> , 2010 , 152, 271-305	7.5	33
7	Separation of the Magnetic Field into External and Internal Parts. <i>Space Science Reviews</i> , 2010 , 152, 135-157		70
6	Auroral footprint of Ganymede. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		39
5	Properties of Ganymede's magnetosphere inferred from improved three-dimensional MHD simulations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		72
4	Magnetic Fields of the Satellites of Jupiter and Saturn. <i>Space Sciences Series of ISSI</i> , 2009 , 271-305	0.1	0
3	Separation of the Magnetic Field into External and Internal Parts. <i>Space Sciences Series of ISSI</i> , 2009 , 135-157		2
2	Three-dimensional MHD simulations of Ganymede's magnetosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		68
1	Interplanetary shock interaction with the heliospheric current sheet and its associated structures. <i>Journal of Geophysical Research</i> , 2001 , 106, 29299-29304		14