

Yu Lin

List of Publications by Year in descending order

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99
papers

2,111
citations

236612

25
h-index

276539

41
g-index

100
all docs

100
docs citations

100
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of reconnection layers in the magnetosphere. <i>Space Science Reviews</i> , 1994, 65, 59-179.	3.7	143
2	Three-dimensional global hybrid simulation of dayside dynamics associated with the quasi-parallel bow shock. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	91
3	Generation of anomalous flows near the bow shock by its interaction with interplanetary discontinuities. <i>Journal of Geophysical Research</i> , 1997, 102, 24265-24281.	3.3	88
4	A two-dimensional hybrid simulation of the magnetotail reconnection layer. <i>Journal of Geophysical Research</i> , 1996, 101, 19859-19870.	3.3	80
5	Global hybrid simulation of hot flow anomalies near the bow shock and in the magnetosheath. <i>Planetary and Space Science</i> , 2002, 50, 577-591.	0.9	77
6	Investigation of storm time magnetotail and ion injection using three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7413-7432.	0.8	73
7	Generation of dynamic pressure pulses downstream of the bow shock by variations in the interplanetary magnetic field orientation. <i>Journal of Geophysical Research</i> , 1996, 101, 479-493.	3.3	71
8	Dipolarization fronts as earthward propagating flux ropes: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6286-6300.	0.8	70
9	Structure of the dayside reconnection layer in resistive MHD and hybrid models. <i>Journal of Geophysical Research</i> , 1993, 98, 3919-3934.	3.3	57
10	Simulation of pressure pulses in the bow shock and magnetosheath driven by variations in interplanetary magnetic field direction. <i>Journal of Geophysical Research</i> , 1996, 101, 27251-27269.	3.3	55
11	Three-Dimensional Mode Conversion Associated with Kinetic Alfvén Waves. <i>Physical Review Letters</i> , 2012, 109, 125003.	2.9	54
12	Hall effect control of magnetotail dawn-dusk asymmetry: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,882.	0.8	48
13	Global-scale simulation of foreshock structures at the quasi-parallel bow shock. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	43
14	A gyrokinetic electron and fully kinetic ion plasma simulation model. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 657-669.	0.9	43
15	A uniform-twist magnetic flux rope in the solar wind. , 1999, , .		42
16	Generation of nonlinear Alfvén and magnetosonic waves by beam-plasma interaction. <i>Physics of Plasmas</i> , 2003, 10, 3528-3538.	0.7	40
17	Global-scale hybrid simulation of dayside magnetic reconnection under southward IMF: Structure and evolution of reconnection. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	36
18	Simulation study of the Riemann problem associated with the magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1995, 100, 19227.	3.3	35

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19	Formation and transport of entropy structures in the magnetotail simulated with a 3D global hybrid code. <i>Geophysical Research Letters</i> , 2017, 44, 5892-5899.	1.5	35
20	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. <i>Space Science Reviews</i> , 2022, 218, .	3.7	35
21	Hybrid simulation of mode conversion at the magnetopause. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
22	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1052-1062.	0.8	32
23	Ion Acceleration Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 163-178.	0.8	30
24	Formation of reconnection layer at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1997, 24, 3145-3148.	1.5	27
25	Three-dimensional MHD simulations of interplanetary rotational discontinuities impacting the Earth's bow shock and magnetosheath. <i>Journal of Geophysical Research</i> , 1998, 103, 29551-29567.	3.3	26
26	Kinetic Alfvén waves in three-dimensional magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6526-6548.	0.8	26
27	Kinetic Alfvén Waves From Magnetotail to the Ionosphere in Global Hybrid Simulation Associated With Fast Flows. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027062.	0.8	26
28	A particle simulation of current sheet instabilities under finite guide field. <i>Physics of Plasmas</i> , 2008, 15, 072103.	0.7	22
29	Magnetic flux rope formation within a magnetosheath hot flow anomaly. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
30	Simulation of linear and nonlinear Landau damping of lower hybrid waves. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	21
31	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. <i>Physics of Plasmas</i> , 2015, 22, 052901.	0.7	21
32	Substorm onset viewed by a two-dimensional, global-scale hybrid code. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 683-704.	0.6	19
33	Ion acceleration and heating by kinetic Alfvén waves associated with magnetic reconnection. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	19
34	Evolution of a Foreshock Bubble in the Midtail Foreshock and Impact on the Magnetopause: 3D Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089844.	1.5	19
35	Global hybrid simulation of mode conversion at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6176-6187.	0.8	18
36	Magnetopause Reconnection as Influenced by the Dipole Tilt Under Southward IMF Conditions: Hybrid Simulation and MMS Observation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027795.	0.8	18

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37	Theory and simulation of lower-hybrid drift instability for current sheet with guide field. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	17
38	Repetitive Emissions of Risingâ€š Tone Chorus Waves in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094979.	1.5	17
39	Global and local processes of thin current sheet formation during substorm growth phase. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 220, 105671.	0.6	17
40	Generation of rotational discontinuities by magnetic reconnection associated with microflares. <i>Solar Physics</i> , 1996, 163, 335.	1.0	16
41	Generation of traveling convection vortices and field-aligned currents in the magnetosphere by response to an interplanetary tangential discontinuity. <i>Geophysical Research Letters</i> , 2000, 27, 3583-3586.	1.5	16
42	A Foreshock Bubble Driven by an IMF Tangential Discontinuity: 3D Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093068.	1.5	16
43	Structure and Coalescence of Magnetopause Flux Ropes and Their Dependence on IMF Clock Angle: Threeâ€š Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028670.	0.8	15
44	Global hybrid simulation of the dayside reconnection layer and associated field-aligned currents. <i>Journal of Geophysical Research</i> , 2001, 106, 25451-25465.	3.3	14
45	Configuration of the Earthâ€™s Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
46	Generation of kinetic Alfvén waves in the high-latitude near-Earth magnetotail: A global hybrid simulation. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	13
47	Physics of kinetic Alfvén waves: a gyrokinetic theory approach. <i>Reviews of Modern Plasma Physics</i> , 2021, 5, 1.	2.2	13
48	Statistical Study of Foreshock Transients in the Midtail Foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029156.	0.8	13
49	Hybrid simulation of foreshock waves and ion spectra and their linkage to cusp energetic ions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	12
50	Magnetosheath Reconnection Before Magnetopause Reconnection Driven by Interplanetary Tangential Discontinuity: A Threeâ€š Dimensional Global Hybrid Simulation With Oblique Interplanetary Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9169-9186.	0.8	12
51	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090393.	1.5	12
52	Magnetic Helicity Signature and Its Role in Regulating Magnetic Energy Spectra and Proton Temperatures in the Solar Wind. <i>Astrophysical Journal</i> , 2021, 906, 123.	1.6	12
53	Generation of near-Earth reconnection by divergent flows in the plasma sheet. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 17-1.	3.3	11
54	Generation of filamentary structures by beam-plasma interaction. <i>Physics of Plasmas</i> , 2006, 13, 052102.	0.7	11

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55	Three-dimensional hybrid simulation of magnetosheath reconnection under northward and southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
56	Investigation of tearing instability using GeFi particle simulation model. <i>Physics of Plasmas</i> , 2011, 18, 122102.	0.7	11
57	Foreshock wave interaction with the magnetopause: Signatures of mode conversion. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7057-7076.	0.8	11
58	Two-dimensional hybrid simulation of the dayside reconnection layer and associated ion transport. <i>Journal of Geophysical Research</i> , 2000, 105, 25171-25183.	3.3	10
59	Formation of dayside low-latitude boundary layer under northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	10
60	Ion dynamics associated with Alfvén wave in the near-Earth magnetotail: Two-dimensional global hybrid simulation. <i>Advances in Space Research</i> , 2008, 41, 1298-1304.	1.2	10
61	Global-scale hybrid simulation of cusp precipitating ions associated with magnetopause reconnection under southward IMF. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
62	Magnetohydrodynamic With Embedded Particle-in-Cell Simulation of the Geospace Environment Modeling Dayside Kinetic Processes Challenge Event. <i>Earth and Space Science</i> , 2020, 7, e2020EA001331.	1.1	10
63	Observational Evidence for Solar Wind Proton Heating by Ion-scale Turbulence. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089720.	1.5	10
64	Impact of Foreshock Transients on the Flank Magnetopause and Magnetosphere and the Ionosphere. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	10
65	MHD simulations of oppositely propagating Alfvén waves in the magnetosheath and solar wind. <i>Geophysical Research Letters</i> , 1998, 25, 1821-1824.	1.5	9
66	Connection between bow shock and cusp energetic ions. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	9
67	The ion temperature gradient: An intrinsic property of Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8295-8309.	0.8	9
68	Generation of kinetic Alfvén waves in dayside magnetopause reconnection: A 3-D global-scale hybrid simulation. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	9
69	Reconnection Processes of Magnetopause Flux Ropes: Three-Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029388.	0.8	9
70	3-D global hybrid simulations of magnetospheric response to foreshock processes. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	9
71	Intermediate shocks in three-dimensional magnetohydrodynamic bowshock flows with multiple interacting shock fronts. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	8
72	Particle-in-Cell Simulation of Rising-Tone Magnetosonic Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089671.	1.5	8

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73	Three-Dimensional Global Hybrid Simulations of High Latitude Magnetopause Reconnection and Flux Ropes During the Northward IMF. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095003.	1.5	8
74	Global Hybrid Simulations of Interaction Between Interplanetary Rotational Discontinuity and Bow Shock/Magnetosphere: Can Ion-Scale Magnetic Reconnection be Driven by Rotational Discontinuity Downstream of Quasi-Parallel Shock?. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028853.	0.8	7
75	Global Asymmetries of Hot Flow Anomalies. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
76	Generation of kinetic Alfvén waves by beam-plasma interaction in non-uniform plasma. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	6
77	Gyrokinetic theory of electrostatic lower-hybrid drift instabilities in a current sheet with guide field. <i>Physics of Plasmas</i> , 2014, 21, 052104.	0.7	6
78	Spontaneous excitation of convective cells by kinetic Alfvén waves. <i>Europhysics Letters</i> , 2015, 112, 65001.	0.7	6
79	Magnetotail Inner Magnetosphere Transport Associated With Fast Flows Based on Combined Global Hybrid and CIMI Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028405.	0.8	6
80	A new particle simulation scheme using electromagnetic fields. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 035004.	0.9	5
81	A Gyrokinetic simulation model for low frequency electromagnetic fluctuations in magnetized plasmas. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	5
82	Two Correlations with Enhancement Near the Proton Gyroradius Scale in Solar Wind Turbulence: Parker Solar Probe (PSP) and Wind Observations. <i>Astrophysical Journal</i> , 2022, 924, 92.	1.6	5
83	Modeling Swarthmore spheromak reconnection experiment using hybrid code. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074012.	0.9	4
84	Large-Scale High-Speed Jets in Earth's Magnetosheath: Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
85	Simulation of ion velocity distributions in the magnetosheath. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	1.5	3
86	Particle simulations of mode conversion between slow mode and fast mode in lower hybrid range of frequencies. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	3
87	3D electrostatic gyrokinetic electron and fully kinetic ion simulation of lower-hybrid drift instability of Harris current sheet. <i>Physics of Plasmas</i> , 2016, 23, 072104.	0.7	3
88	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	3
89	Magnetic Reconnection Inside Solar Wind Rotational Discontinuity During Its Interaction With the Quasi-Perpendicular Bow Shock and Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	3
90	Simulation of mode conversion at the magnetopause. <i>Science Bulletin</i> , 2012, 57, 1375-1383.	1.7	2

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91	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027337.	0.8	2
92	Investigation of the Interaction Between Magnetosheath Reconnection and Magnetopause Reconnection Driven by Oblique Interplanetary Tangential Discontinuity Using Three-Dimensional Global Hybrid Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028558.	0.8	2
93	3-D Hybrid Simulation of Quasi-Parallel Bow Shock and Its Effects on the Magnetosphere. AIP Conference Proceedings, 2005, , .	0.3	1
94	Reversal of magnetic field rotation in the reconnection layer due to shear flow effects. Journal of Geophysical Research, 2006, 111, .	3.3	1
95	Generation of Diamagnetic Cavities at the Bow Shock by Ion Kinetic Effects. Geophysical Monograph Series, 2013, , 31-40.	0.1	1
96	Dayside Auroral Observation Resulting From a Rapid Localized Compression of the Earth's Magnetic Field. Geophysical Research Letters, 2020, 47, e2020GL088995.	1.5	1
97	Structure of reconnection layers at the magnetopause and in the magnetotail. Geophysical Monograph Series, 1995, , 255-260.	0.1	0
98	Simulation Study of Beam-Plasma Interaction and Associated Acceleration of Background Ions. Geophysical Monograph Series, 2013, , 117-123.	0.1	0
99	Structure of the Magnetotail Reconnection Layer in 2-D Ideal MHD Model. Geophysical Monograph Series, 0, , 275-286.	0.1	0