

# Yu Lin

## List of Publications by Year in descending order

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99  
papers

2,111  
citations

236612

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276539

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100  
docs citations

100  
times ranked

1181  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Global Asymmetries of Hot Flow Anomalies. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
3	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
4	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. <i>Space Science Reviews</i> , 2022, 218, .	3.7	35
5	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
6	Physics of kinetic Alfvén waves: a gyrokinetic theory approach. <i>Reviews of Modern Plasma Physics</i> , 2021, 5, 1.	2.2	13
7	Structure and Coalescence of Magnetopause Flux Ropes and Their Dependence on IMF Clock Angle: Three-dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028670.	0.8	15
8	Investigation of the Interaction Between Magnetosheath Reconnection and Magnetopause Reconnection Driven by Oblique Interplanetary Tangential Discontinuity Using Three-dimensional Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028558.	0.8	2
9	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
10	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
11	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
12	Statistical Study of Foreshock Transients in the Midtail Foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029156.	0.8	13
13	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
14	A Foreshock Bubble Driven by an IMF Tangential Discontinuity: 3D Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093068.	1.5	16
15	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
16	3-D global hybrid simulations of magnetospheric response to foreshock processes. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	9
17	Repetitive Emissions of Rising-tone Chorus Waves in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094979.	1.5	17
18	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

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19	Global and local processes of thin current sheet formation during substorm growth phase. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 220, 105671.	0.6	17
20	Three-Dimensional Global Hybrid Simulations of High Latitude Magnetopause Reconnection and Flux Ropes During the Northward IMF. Geophysical Research Letters, 2021, 48, e2021GL095003.	1.5	8
21	Magnetic Reconnection Inside Solar Wind Rotational Discontinuity During Its Interaction With the Quasi-Perpendicular Bow Shock and Magnetosheath. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	3
22	Particle-in-Cell Simulation of Rising-Tone Magnetosonic Waves. Geophysical Research Letters, 2020, 47, e2020GL089671.	1.5	8
23	Magnetohydrodynamic With Embedded Particle-in-Cell Simulation of the Geospace Environment Modeling Dayside Kinetic Processes Challenge Event. Earth and Space Science, 2020, 7, e2020EA001331.	1.1	10
24	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. Geophysical Research Letters, 2020, 47, e2020GL090393.	1.5	12
25	Magnetopause Reconnection as Influenced by the Dipole Tilt Under Southward IMF Conditions: Hybrid Simulation and MMS Observation. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027795.	0.8	18
26	Dayside Auroral Observation Resulting From a Rapid Localized Compression of the Earth's Magnetic Field. Geophysical Research Letters, 2020, 47, e2020GL088995.	1.5	1
27	Observational Evidence for Solar Wind Proton Heating by Ion-Scale Turbulence. Geophysical Research Letters, 2020, 47, e2020GL089720.	1.5	10
28	Evolution of a Foreshock Bubble in the Midtail Foreshock and Impact on the Magnetopause: 3-D Global Hybrid Simulation. Geophysical Research Letters, 2020, 47, e2020GL089844.	1.5	19
29	Kinetic Alfvén Waves From Magnetotail to the Ionosphere in Global Hybrid Simulation Associated With Fast Flows. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027062.	0.8	26
30	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027337.	0.8	2
31	Generation of kinetic Alfvén waves in dayside magnetopause reconnection: A 3-D global-scale hybrid simulation. Physics of Plasmas, 2019, 26, .	0.7	9
32	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 1052-1062.	0.8	32
33	A new particle simulation scheme using electromagnetic fields. Plasma Physics and Controlled Fusion, 2019, 61, 035004.	0.9	5
34	Ion Acceleration Inside Foreshock Transients. Journal of Geophysical Research: Space Physics, 2018, 123, 163-178.	0.8	30
35	Magnetosheath Reconnection Before Magnetopause Reconnection Driven by Interplanetary Tangential Discontinuity: A Three-Dimensional Global Hybrid Simulation With Oblique Interplanetary Magnetic Field. Journal of Geophysical Research: Space Physics, 2018, 123, 9169-9186.	0.8	12
36	Formation and transport of entropy structures in the magnetotail simulated with a 3-D global hybrid code. Geophysical Research Letters, 2017, 44, 5892-5899.	1.5	35

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37	Ion acceleration and heating by kinetic Alfvén waves associated with magnetic reconnection. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	19
38	Gyrokinetic electron and fully kinetic ion simulations of fast magnetosonic waves in the magnetosphere. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	3
39	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
40	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
41	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
42	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
43	Kinetic Alfvén waves in three-dimensional magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6526-6548.	0.8	26
44	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
45	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
46	Spontaneous excitation of convective cells by kinetic Alfvén waves. <i>Europhysics Letters</i> , 2015, 112, 65001.	0.7	6
47	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. <i>Physics of Plasmas</i> , 2015, 22, 052901.	0.7	21
48	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
49	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
50	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
51	Simulation of linear and nonlinear Landau damping of lower hybrid waves. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	21
52	Generation of Diamagnetic Cavities at the Bow Shock by Ion Kinetic Effects. <i>Geophysical Monograph Series</i> , 2013, , 31-40.	0.1	1
53	Simulation Study of Beam-Plasma Interaction and Associated Acceleration of Background Ions. <i>Geophysical Monograph Series</i> , 2013, , 117-123.	0.1	0
54	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

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55	Generation of kinetic Alfvén waves by beam-plasma interaction in non-uniform plasma. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	6
56	Magnetic flux rope formation within a magnetosheath hot flow anomaly. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
57	Three-Dimensional Mode Conversion Associated with Kinetic Alfvén Waves. <i>Physical Review Letters</i> , 2012, 109, 125003.	2.9	54
58	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
59	Simulation of mode conversion at the magnetopause. <i>Science Bulletin</i> , 2012, 57, 1375-1383.	1.7	2
60	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
61	Investigation of tearing instability using GeFi particle simulation model. <i>Physics of Plasmas</i> , 2011, 18, 122102.	0.7	11
62	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
63	Hybrid simulation of mode conversion at the magnetopause. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
64	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
65	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
66	Modeling Swarthmore spheromak reconnection experiment using hybrid code. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074012.	0.9	4
67	Theory and simulation of lower-hybrid drift instability for current sheet with guide field. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	17
68	A particle simulation of current sheet instabilities under finite guide field. <i>Physics of Plasmas</i> , 2008, 15, 072103.	0.7	22
69	Connection between bow shock and cusp energetic ions. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	9
70	Intermediate shocks in three-dimensional magnetohydrodynamic bow-shock flows with multiple interacting shock fronts. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	8
71	Reversal of magnetic field rotation in the reconnection layer due to shear flow effects. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	1
72	Formation of dayside low-latitude boundary layer under northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	10

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73	Generation of filamentary structures by beam-plasma interaction. <i>Physics of Plasmas</i> , 2006, 13, 052102.	0.7	11
74	3-D Hybrid Simulation of Quasi-Parallel Bow Shock and Its Effects on the Magnetosphere. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
75	A gyrokinetic electron and fully kinetic ion plasma simulation model. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 657-669.	0.9	43
76	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
77	Global-scale simulation of foreshock structures at the quasi-parallel bow shock. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	43
78	Generation of nonlinear Alfvén and magnetosonic waves by beam-plasma interaction. <i>Physics of Plasmas</i> , 2003, 10, 3528-3538.	0.7	40
79	Simulation of ion velocity distributions in the magnetosheath. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	1.5	3
80	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
81	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
82	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
83	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
84	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
85	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
86	A uniform-twist magnetic flux rope in the solar wind. , 1999, , .		42
87	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
88	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
89	Formation of reconnection layer at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1997, 24, 3145-3148.	1.5	27
90	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

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91	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
92	A two-dimensional hybrid simulation of the magnetotail reconnection layer. <i>Journal of Geophysical Research</i> , 1996, 101, 19859-19870.	3.3	80
93	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
94	Generation of rotational discontinuities by magnetic reconnection associated with microflares. <i>Solar Physics</i> , 1996, 163, 335.	1.0	16
95	Structure of reconnection layers at the magnetopause and in the magnetotail. <i>Geophysical Monograph Series</i> , 1995, , 255-260.	0.1	0
96	Simulation study of the Riemann problem associated with the magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1995, 100, 19227.	3.3	35
97	Structure of reconnection layers in the magnetosphere. <i>Space Science Reviews</i> , 1994, 65, 59-179.	3.7	143
98	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
99	Structure of the Magnetotail Reconnection Layer in 2-D Ideal MHD Model. <i>Geophysical Monograph Series</i> , 0, , 275-286.	0.1	0