

# Philip L Pritchett

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8179204/publications.pdf>

Version: 2024-02-01

93  
papers

5,961  
citations

87888

38  
h-index

69250

77  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. Journal of Geophysical Research, 2001, 106, 3715-3719.	3.3	1,071
2	Nonlocal stability analysis of the MHD Kelvin-Helmholtz instability in a compressible plasma. Journal of Geophysical Research, 1982, 87, 7431-7444.	3.3	419
3	Geospace Environment Modeling magnetic reconnection challenge: Simulations with a full particle electromagnetic code. Journal of Geophysical Research, 2001, 106, 3783-3798.	3.3	329
4	Three-dimensional collisionless magnetic reconnection in the presence of a guide field. Journal of Geophysical Research, 2004, 109, .	3.3	270
5	does ion tearing exist?. Geophysical Research Letters, 1991, 18, 143-146.	4.0	232
6	A kinetic ballooning/interchange instability in the magnetotail. Journal of Geophysical Research, 2010, 115, .	3.3	159
7	Collisionless magnetic reconnection in an asymmetric current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	158
8	Formation of thin current sheets during plasma sheet convection. Journal of Geophysical Research, 1995, 100, 23551.	3.3	135
9	Three-dimensional stability of thin quasi-neutral current sheets. Journal of Geophysical Research, 1996, 101, 27413-27429.	3.3	133
10	Relativistic electron production during guide field magnetic reconnection. Journal of Geophysical Research, 2006, 111, .	3.3	112
11	Collisionless magnetic reconnection in a three-dimensional open system. Journal of Geophysical Research, 2001, 106, 25961-25977.	3.3	111
12	Collisionless reconnection in two-dimensional magnetotail equilibria. Journal of Geophysical Research, 1991, 96, 11523-11538.	3.3	108
13	Asymmetric magnetic reconnection in the presence of a guide field. Journal of Geophysical Research, 2009, 114, .	3.3	101
14	Forced magnetic reconnection. Geophysical Research Letters, 2005, 32, .	4.0	96
15	Energetic electron acceleration during multi-island coalescence. Physics of Plasmas, 2008, 15, .	1.9	89
16	Convection and the formation of thin current sheets in the near-Earth plasma sheet. Geophysical Research Letters, 1994, 21, 1587-1590.	4.0	85
17	Ion-ion kink instability in the magnetotail: 2. Three-dimensional full particle and hybrid simulations and comparison with observations. Journal of Geophysical Research, 2003, 108, .	3.3	79
18	Plasma sheet disruption by interchange-generated flow intrusions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	79

#	ARTICLE	IF	CITATIONS
19	Structure and consequences of the kinetic ballooning/interchange instability in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 146-159.	2.4	78
20	Effect of electron dynamics on collisionless reconnection in two-dimensional magnetotail equilibria. Journal of Geophysical Research, 1994, 99, 5935.	3.3	77
21	Onset and saturation of guide-field magnetic reconnection. Physics of Plasmas, 2005, 12, 062301.	1.9	76
22	Explosive Magnetotail Activity. Space Science Reviews, 2019, 215, 31.	8.1	75
23	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. Nature Communications, 2020, 11, 5049.	12.8	75
24	Ion-ion kink instability in the magnetotail: 1. Linear theory. Journal of Geophysical Research, 2003, 108, .	3.3	72
25	Electronâ€cyclotron maser instability in relativistic plasmas. Physics of Fluids, 1986, 29, 2919-2930.	1.4	70
26	The kinetic ballooning/interchange instability as a source of dipolarization fronts and auroral streamers. Journal of Geophysical Research: Space Physics, 2014, 119, 4723-4739.	2.4	70
27	Generation and propagation of cyclotron maser emissions in the finite auroral kilometeric radiation source cavity. Journal of Geophysical Research, 2002, 107, SMP 13-1-SMP 13-17.	3.3	69
28	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	4.0	66
29	Observations of kinetic ballooning/interchange instability signatures in the magnetotail. Geophysical Research Letters, 2012, 39, .	4.0	62
30	Relativistic electron production during driven magnetic reconnection. Geophysical Research Letters, 2006, 33, .	4.0	61
31	Observations and simulations of asymmetric magnetic field reconnection. Journal of Geophysical Research, 2008, 113, .	3.3	56
32	Statistical properties of substorm auroral onset beads/rays. Journal of Geophysical Research: Space Physics, 2016, 121, 8661-8676.	2.4	54
33	Externally driven magnetic reconnection in the presence of a normal magnetic field. Journal of Geophysical Research, 2005, 110, .	3.3	51
34	Vlasov simulations of electron holes driven by particle distributions from PIC reconnection simulations with a guide field. Geophysical Research Letters, 2008, 35, .	4.0	50
35	Hall effect control of magnetotail dawnâ€dusk asymmetry: A threeâ€dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2016, 121, 11,882.	2.4	48
36	Onset of magnetic reconnection in the presence of a normal magnetic field: Realistic ion to electron mass ratio. Journal of Geophysical Research, 2010, 115, .	3.3	47

#	ARTICLE	IF	CITATIONS
37	Electron dynamics in two-dimensional asymmetric anti-parallel reconnection. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	44
38	Electron Physics of Asymmetric Magnetic Field Reconnection. <i>Space Science Reviews</i> , 2011, 158, 119-143.	8.1	40
39	Turbulence and Particle Acceleration in Collisionless Magnetic Reconnection: Effects of Temperature Inhomogeneity across Pre-reconnection Current Sheet. <i>Astrophysical Journal</i> , 2019, 878, 109.	4.5	37
40	Interchange and kink modes in the near-Earth plasma sheet and their associated plasma flows. <i>Geophysical Research Letters</i> , 1997, 24, 2925-2928.	4.0	35
41	Convection-driven reconnection and the stability of the near-Earth plasma sheet. <i>Geophysical Research Letters</i> , 1997, 24, 873-876.	4.0	33
42	Intense perpendicular electric fields associated with three-dimensional magnetic reconnection at the subsolar magnetopause. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
43	Formation of Dawnâ€Dusk Asymmetry in Earth's Magnetotail Thin Current Sheet: A Three-dimensional Particle-in-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2801-2814.	2.4	33
44	The magnetic field reconnection site and dissipation region. <i>Physics of Plasmas</i> , 2009, 16, 080702.	1.9	32
45	Collisionless reconnection in configurations with a minimum in the equatorial magnetic field and with magnetic shear. <i>Journal of Geophysical Research</i> , 1995, 100, 3601-3611.	3.3	31
46	Statistical Properties of Sub-ion Magnetic Holes in the Dipolarized Magnetotail: Formation, Structure, and Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 342-359.	2.4	31
47	The "Newton Challenge": Kinetic aspects of forced magnetic reconnection. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
48	The influence of intense electric fields on three-dimensional asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
49	Regions associated with electron physics in asymmetric magnetic field reconnection. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	27
50	Characteristics of ion distribution functions in dipolarizing flux bundles: Event studies. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5965-5978.	2.4	27
51	Magnetic reconnection in Earth's magnetotail: Energy conversion and its earthwardâ€tailward asymmetry. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	27
52	Instability of current sheets with a localized accumulation of magnetic flux. <i>Physics of Plasmas</i> , 2015, 22, 062102.	1.9	26
53	The onset of magnetic reconnection in three dimensions. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	25
54	The interaction of finite-width reconnection exhaust jets with a dipolar magnetic field configuration. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3183-3200.	2.4	25

#	ARTICLE	IF	CITATIONS
55	Plasma sheet convection and the stability of the magnetotail. <i>Geophysical Research Letters</i> , 1990, 17, 2233-2236.	4.0	24
56	Externally Driven Onset of Localized Magnetic Reconnection and Disruption in a Magnetotail Configuration. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2787-2800.	2.4	24
57	Drift ballooning mode in a kinetic model of the near-Earth plasma sheet. <i>Journal of Geophysical Research</i> , 1999, 104, 12289-12299.	3.3	23
58	Kinetic properties of magnetic merging in the coalescence process. <i>Physics of Plasmas</i> , 2007, 14, 052102.	1.9	23
59	Interchange Instabilities and Localized High-Speed Flows in the Convectively-Driven Near-Earth Plasma Sheet. <i>Astrophysics and Space Science Library</i> , 1998, , 443-448.	2.7	23
60	Distinctive features of internally driven magnetotail reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 3028-3037.	4.0	21
61	Kinetic simulations of 3-D reconnection and magnetotail disruptions. <i>Earth, Planets and Space</i> , 2001, 53, 635-643.	2.5	20
62	Structure of exhaust jets produced by magnetic reconnection localized in the out-of-plane direction. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 592-608.	2.4	19
63	Spatial, temporal, and amplitude characteristics of parallel electric fields associated with subsolar magnetic field reconnection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
64	Effects of Cross-Sheet Density and Temperature Inhomogeneities on Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 28-36.	4.0	18
65	Electron beam generated solitary structures in a nonuniform plasma system. <i>Geophysical Research Letters</i> , 2000, 27, 2869-2872.	4.0	17
66	Consequences of current interruption for plasma sheet dynamics. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 18-1.	3.3	15
67	Satellite observations of plasma physics near the magnetic field reconnection X line. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	15
68	Dawnward Drifting Interchange Heads in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 8834-8843.	4.0	15
69	Magnetic field reconnection: A first-principles perspective. <i>Physics Today</i> , 2010, 63, 34-39.	0.3	14
70	Three-dimensional structure and kinetic features of reconnection exhaust jets. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 214-226.	2.4	14
71	Ionospheric Footprints of Detached Magnetotail Interchange Heads. <i>Geophysical Research Letters</i> , 2019, 46, 7237-7247.	4.0	14
72	Electron-Only Reconnection as a Transition From Quiet Current Sheet to Standard Reconnection in Earth's Magnetotail: Particle-in-Cell Simulation and Application to MMS Data. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14

#	ARTICLE	IF	CITATIONS
73	Localized convection flows and field-aligned current generation in a kinetic model of the near-Earth plasma sheet. <i>Geophysical Research Letters</i> , 2000, 27, 3161-3164.	4.0	13
74	The quiet evening auroral arc and the structure of the growth phase near-Earth plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1827-1836.	2.4	13
75	Understanding Spacecraft Trajectories Through Detached Magnetotail Interchange Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027930.	2.4	11
76	Energetic Electron Acceleration by Ion-scale Magnetic Islands in Turbulent Magnetic Reconnection: Particle-in-cell Simulations and ARTEMIS Observations. <i>Astrophysical Journal</i> , 2020, 896, 105.	4.5	11
77	Interaction of reflected ions with the firehose marginally stable current sheet: Implications for plasma sheet convection. <i>Geophysical Research Letters</i> , 1992, 19, 1631-1634.	4.0	10
78	Particle-in-cell Simulations of Secondary Magnetic Islands: Ion-scale Flux Ropes and Plasmoids. <i>Astrophysical Journal</i> , 2020, 900, 145.	4.5	10
79	Field-Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMS-ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 5836-5844.	4.0	9
80	Resonant absorption of Alfvén waves. <i>Physics of Fluids</i> , 1981, 24, 2374.	1.4	8
81	Short-burst auroral radiations in Alfvénic acceleration regions: FAST observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	8
82	Rippling mode in the subsolar magnetopause current layer and its influence on three-dimensional magnetic reconnection. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	8
83	Reconnection flow jets in 3D as a source of structured dipolarization fronts. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	8
84	Ion Cyclotron Waves Rippling Ballooning/Interchange Instability Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8261-8274.	2.4	7
85	Magnetotail Ion Structuring by Kinetic Ballooning-Interchange Instability. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
86	Fast Inverse Transform Sampling of Non-Gaussian Distribution Functions in Space Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	6
87	Off-equatorial current-driven instabilities ahead of approaching dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5247-5260.	2.4	5
88	Electrodynamic Contributions to the Hall- and Parallel Electric Fields in Collisionless Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029550.	2.4	5
89	Configuration of Magnetotail Current Sheet Prior to Magnetic Reconnection Onset. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
90	Plasma sheet response to the ionosphere's demand for field-aligned current. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1

#	ARTICLE	IF	CITATIONS
91	Correction to "Collisionless reconnection in a quasi-neutral sheet near marginal stability"; Geophysical Research Letters, 1991, 18, 355-355.	4.0	0
92	Formation of the macroscopic tail current sheet in a microscopic distributed-source model. Geophysical Monograph Series, 1995, , 171-179.	0.1	0
93	Electron Physics of Asymmetric Magnetic Field Reconnection. , 2010, , 119-143.		0