

Philip L Pritchett

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91 papers	5,241 citations	37 h-index	71 g-index
95 ext. papers	5,554 ext. citations	3.8 avg, IF	6.03 L-index

#	Paper	IF	Citations
91	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001 , 106, 3715-3719		970
90	Nonlocal stability analysis of the MHD Kelvin-Helmholtz instability in a compressible plasma. <i>Journal of Geophysical Research</i> , 1982 , 87, 7431		377
89	Geospace Environment Modeling magnetic reconnection challenge: Simulations with a full particle electromagnetic code. <i>Journal of Geophysical Research</i> , 2001 , 106, 3783-3798		297
88	Three-dimensional collisionless magnetic reconnection in the presence of a guide field. <i>Journal of Geophysical Research</i> , 2004 , 109,		239
87	does ion tearing exist?. <i>Geophysical Research Letters</i> , 1991 , 18, 143-146	4.9	205
86	Collisionless magnetic reconnection in an asymmetric current sheet. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		140
85	A kinetic ballooning/interchange instability in the magnetotail. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		138
84	Formation of thin current sheets during plasma sheet convection. <i>Journal of Geophysical Research</i> , 1995 , 100, 23551		128
83	Three-dimensional stability of thin quasi-neutral current sheets. <i>Journal of Geophysical Research</i> , 1996 , 101, 27413-27429		122
82	Collisionless magnetic reconnection in a three-dimensional open system. <i>Journal of Geophysical Research</i> , 2001 , 106, 25961-25977		104
81	Relativistic electron production during guide field magnetic reconnection. <i>Journal of Geophysical Research</i> , 2006 , 111,		100
80	Collisionless reconnection in two-dimensional magnetotail equilibria. <i>Journal of Geophysical Research</i> , 1991 , 96, 11523		96
79	Forced magnetic reconnection. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	91
78	Asymmetric magnetic reconnection in the presence of a guide field. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		87
77	Energetic electron acceleration during multi-island coalescence. <i>Physics of Plasmas</i> , 2008 , 15, 102105	2.1	80
76	Structure and consequences of the kinetic ballooning/interchange instability in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 146-159	2.6	75
75	Convection and the formation of thin current sheets in the near-Earth plasma sheet. <i>Geophysical Research Letters</i> , 1994 , 21, 1587-1590	4.9	75

74	Plasma sheet disruption by interchange-generated flow intrusions. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	73
73	Ion-ion kink instability in the magnetotail: 2. Three-dimensional full particle and hybrid simulations and comparison with observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		70
72	Effect of electron dynamics on collisionless reconnection in two-dimensional magnetotail equilibria. <i>Journal of Geophysical Research</i> , 1994 , 99, 5935		69
71	Onset and saturation of guide-field magnetic reconnection. <i>Physics of Plasmas</i> , 2005 , 12, 062301	2.1	67
70	Ion-ion kink instability in the magnetotail: 1. Linear theory. <i>Journal of Geophysical Research</i> , 2003 , 108,		65
69	Electron-cyclotron maser instability in relativistic plasmas. <i>Physics of Fluids</i> , 1986 , 29, 2919-2930		64
68	The kinetic ballooning/interchange instability as a source of dipolarization fronts and auroral streamers. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4723-4739	2.6	61
67	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 5571-5580	4.9	59
66	Relativistic electron production during driven magnetic reconnection. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	58
65	Observations of kinetic ballooning/interchange instability signatures in the magnetotail. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	57
64	Generation and propagation of cyclotron maser emissions in the finite auroral kilometric radiation source cavity. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 13-1-SMP 13-17		57
63	Observations and simulations of asymmetric magnetic field reconnection. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		54
62	Explosive Magnetotail Activity. <i>Space Science Reviews</i> , 2019 , 215, 31	7.5	48
61	Statistical properties of substorm auroral onset beads/rays. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8661-8676	2.6	45
60	Vlasov simulations of electron holes driven by particle distributions from PIC reconnection simulations with a guide field. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	45
59	Onset of magnetic reconnection in the presence of a normal magnetic field: Realistic ion to electron mass ratio. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		43
58	Externally driven magnetic reconnection in the presence of a normal magnetic field. <i>Journal of Geophysical Research</i> , 2005 , 110,		43
57	Electron dynamics in two-dimensional asymmetric anti-parallel reconnection. <i>Physics of Plasmas</i> , 2011 , 18, 102901	2.1	42

56	Electron Physics of Asymmetric Magnetic Field Reconnection. <i>Space Science Reviews</i> , 2011 , 158, 119-143	7.5	38
55	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
54	Hall effect control of magnetotail dawn-dusk asymmetry: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,882-11,895	2.6	37
53	Interchange and kink modes in the near-Earth plasma sheet and their associated plasma flows. <i>Geophysical Research Letters</i> , 1997 , 24, 2925-2928	4.9	34
52	Convection-driven reconnection and the stability of the near-Earth plasma sheet. <i>Geophysical Research Letters</i> , 1997 , 24, 873-876	4.9	33
51	Intense perpendicular electric fields associated with three-dimensional magnetic reconnection at the subsolar magnetopause. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		30
50	The magnetic field reconnection site and dissipation region. <i>Physics of Plasmas</i> , 2009 , 16, 080702	2.1	29
49	Regions associated with electron physics in asymmetric magnetic field reconnection. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	27
48	Characteristics of ion distribution functions in dipolarizing flux bundles: Event studies. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5965-5978	2.6	26
47	The influence of intense electric fields on three-dimensional asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , 2013 , 20, 061204	2.1	26
46	The Newton Challenge—Kinetic aspects of forced magnetic reconnection. <i>Journal of Geophysical Research</i> , 2005 , 110,		26
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		26
44	Formation of Dawn-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	2.6	25
43	Plasma sheet convection and the stability of the magnetotail. <i>Geophysical Research Letters</i> , 1990 , 17, 2233-2236	4.9	24
42	The onset of magnetic reconnection in three dimensions. <i>Physics of Plasmas</i> , 2013 , 20, 080703	2.1	23
41	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	2.6	22
40	Instability of current sheets with a localized accumulation of magnetic flux. <i>Physics of Plasmas</i> , 2015 , 22, 062102	2.1	22
39	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	0.3	22

38	Turbulence and Particle Acceleration in Collisionless Magnetic Reconnection: Effects of Temperature Inhomogeneity across Pre-reconnection Current Sheet. <i>Astrophysical Journal</i> , 2019 , 878, 109	4.7	21
37	Kinetic properties of magnetic merging in the coalescence process. <i>Physics of Plasmas</i> , 2007 , 14, 052102	2.1	21
36	Drift ballooning mode in a kinetic model of the near-Earth plasma sheet. <i>Journal of Geophysical Research</i> , 1999 , 104, 12289-12299		20
35	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	2.6	20
34	Kinetic simulations of 3-D reconnection and magnetotail disruptions. <i>Earth, Planets and Space</i> , 2001 , 53, 635-643	2.9	19
33	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	2.6	18
32	Distinctive features of internally driven magnetotail reconnection. <i>Geophysical Research Letters</i> , 2017 , 44, 3028-3037	4.9	17
31	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	2.6	17
30	Spatial, temporal, and amplitude characteristics of parallel electric fields associated with subsolar magnetic field reconnection. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		17
29	Magnetic reconnection in Earth's magnetotail: Energy conversion and its earthward asymmetry. <i>Physics of Plasmas</i> , 2018 , 25, 012905	2.1	15
28	Electron beam generated solitary structures in a nonuniform plasma system. <i>Geophysical Research Letters</i> , 2000 , 27, 2869-2872	4.9	15
27	Effects of Cross-Sheet Density and Temperature Inhomogeneities on Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 28-36	4.9	15
26	Satellite observations of plasma physics near the magnetic field reconnection X line. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		14
25	Magnetic field reconnection: A first-principles perspective. <i>Physics Today</i> , 2010 , 63, 34-39	0.9	14
24	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	4.9	13
23	Consequences of current interruption for plasma sheet dynamics. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 18-1		12
22	Dawnward Drifting Interchange Heads in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 8834-8843	4.9	12
21	Ionospheric Footprints of Detached Magnetotail Interchange Heads. <i>Geophysical Research Letters</i> , 2019 , 46, 7237-7247	4.9	11

20	Three-dimensional structure and kinetic features of reconnection exhaust jets. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 214-226	2.6	11
19	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	2.6	10
18	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	4.9	10
17	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		8
16	Particle-in-cell Simulations of Secondary Magnetic Islands: Ion-scale Flux Ropes and Plasmoids. <i>Astrophysical Journal</i> , 2020 , 900, 145	4.7	8
15	Field-Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMS-ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 5836-5844	4.9	7
14	Reconnection flow jets in 3D as a source of structured dipolarization fronts. <i>Earth, Planets and Space</i> , 2015 , 67,	2.9	7
13	Understanding Spacecraft Trajectories Through Detached Magnetotail Interchange Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027930	2.6	6
12	Short-burst auroral radiations in Alfvénic acceleration regions: FAST observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		6
11	Resonant absorption of Alfvén waves. <i>Physics of Fluids</i> , 1981 , 24, 2374		6
10	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	4.7	5
9	Ion Cyclotron Waves Rippling Ballooning/InterChange Instability Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8261-8274	2.6	5
8	Off-equatorial current-driven instabilities ahead of approaching dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5247-5260	2.6	4
7	Plasma sheet response to the ionosphere's demand for field-aligned current. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	1
6	Magnetotail Ion Structuring by Kinetic Ballooning-Interchange Instability. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
5	Electrodynamic Contributions to the Hall- and Parallel Electric Fields in Collisionless Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029550	2.6	1
4	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,	4.9	0
3	Formation of the Macroscopic Tail Current Sheet in a Microscopic Distributed-Source Model. <i>Geophysical Monograph Series</i> , 1995 , 171-179	1.1	

- 2 Correction to Collisionless reconnection in a quasi-neutral sheet near marginal stability
Geophysical Research Letters, **1991**, 18, 355-355 4.9
- 1 Electron Physics of Asymmetric Magnetic Field Reconnection **2010**, 119-143