James F Drake

List of Publications by Year
in descending order

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265 papers	20,468 citations	9786 73 h-index	12272 133 g-index
267 all docs	267 docs citations	267 times ranked	5092 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	Electron acceleration from contracting magnetic islands during reconnection. Nature, 2006, 443, 553-556.	27.8	793
3	Parametric instabilities of electromagnetic waves in plasmas. Physics of Fluids, 1974, 17, 778.	1.4	745
4	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
5	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
6	Kinetic theory of tearing instabilities. Physics of Fluids, 1977, 20, 1341.	1.4	419
7	AlfvÃ©nic collisionless magnetic reconnection and the Hall term. Journal of Geophysical Research, 2001, 106, 3759-3772.	3.3	389
8	Formation of Electron Holes and Particle Energization During Magnetic Reconnection. Science, 2003, 299, 873-877.	12.6	374
9	Structure of the dissipation region during collisionless magnetic reconnection. Journal of Geophysical Research, 1998, 103, 9165-9176.	3.3	331
10	Transition to whistler mediated magnetic reconnection. Geophysical Research Letters, 1994, 21, 73-76.	4.0	305
11	Two-Scale Structure of the Electron Dissipation Region during Collisionless Magnetic Reconnection. Physical Review Letters, 2007, 99, 155002.	7.8	275
12	Cluster observations of electron holes in association with magnetotail reconnection and comparison to simulations. Journal of Geophysical Research, 2005, 110, .	3.3	251
13	A MAGNETIC RECONNECTION MECHANISM FOR THE GENERATION OF ANOMALOUS COSMIC RAYS. Astrophysical Journal, 2010, 709, 963-974.	4.5	239
14	The scaling of collisionless, magnetic reconnection for large systems. Geophysical Research Letters, 1999, 26, 2163-2166.	4.0	237
15	Threeâ€dimensional fluid simulations of the nonlinear driftâ€resistive ballooning modes in tokamak edge plasmas. Physics of Fluids B, 1993, 5, 3712-3727.	1.7	231
16	Role of Dispersive Waves in Collisionless Magnetic Reconnection. Physical Review Letters, 2001, 87, 195004.	7.8	231
17	Three-dimensional particle simulations of collisionless magnetic reconnection. Journal of Geophysical Research, 2002, 107, SMP 6-1.	3.3	231
18	Two-Dimensional Electron Magnetohydrodynamic Turbulence. Physical Review Letters, 1996, 76, 1264-1267.	7.8	230

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19	Phase Space of Tokamak Edge Turbulence, theLâ^'HTransition, and the Formation of the Edge Pedestal. Physical Review Letters, 1998, 81, 4396-4399.	7.8	230
20	Formation of secondary islands during magnetic reconnection. Geophysical Research Letters, 2006, 33, .	4.0	221
21	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
22	Electron magnetohydrodynamic turbulence. Physics of Plasmas, 1999, 6, 751-758.	1.9	200
23	Nonlinear reduced Braginskii equations with ion thermal dynamics in toroidal plasma. Physics of Plasmas, 1997, 4, 2134-2138.	1.9	199
24	The role of electron dissipation on the rate of collisionless magnetic reconnection. Geophysical Research Letters, 1998, 25, 3759-3762.	4.0	195
25	Two-fluid theory of collisionless magnetic reconnection. Physics of Plasmas, 1997, 4, 1002-1009.	1.9	193
26	Production of Energetic Electrons during Magnetic Reconnection. Physical Review Letters, 2005, 94, 095001.	7.8	190
27	Linear analysis of the double-tearing mode. Physics of Fluids, 1980, 23, 1368.	1.4	178
28	The mechanisms of electron heating and acceleration during magnetic reconnection. Physics of Plasmas, 2014, 21, .	1.9	172
29	Spontaneous poloidal spin-up of tokamaks and the transition to theHmode. Physical Review Letters, 1991, 66, 309-312.	7.8	169
30	The Hall fields and fast magnetic reconnection. Physics of Plasmas, 2008, 15, .	1.9	168
31	Lower-hybrid-drift instability in field reversed plasmas. Physics of Fluids, 1980, 23, 552.	1.4	166
32	Ion-Controlled Collisionless Magnetic Reconnection. Physical Review Letters, 1995, 75, 3850-3853.	7.8	153
33	A MAGNETIC RECONNECTION MECHANISM FOR ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMPULSIVE FLARES. Astrophysical Journal, 2009, 700, L16-L20.	4.5	153
34	Fast reconnection in high temperature plasmas. Physics of Plasmas, 1995, 2, 23-34.	1.9	152
35	Ion heating resulting from pickup in magnetic reconnection exhausts. Journal of Geophysical Research, 2009, 114, .	3.3	151
36	Structure of Thin Current Layers: Implications for Magnetic Reconnection. Physical Review Letters, 1994, 73, 1251-1254.	7.8	150

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37	Evidence for an Elongated (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 1 Diffusion Region during Fast Magnetic Reconnection. Physical Review Letters, 2007, 99, 255002.	7.8	150
38	Marfes: Radiative condensation in tokamak edge plasma. Physics of Fluids, 1987, 30, 2429.	1.4	145
39	Catastrophe Model for Fast Magnetic Reconnection Onset. Physical Review Letters, 2005, 95, 235002.	7.8	144
40	A current filamentation mechanism for breaking magnetic field lines during reconnection. Nature, 2011, 474, 184-187.	27.8	137
41	THE VECTOR DIRECTION OF THE INTERSTELLAR MAGNETIC FIELD OUTSIDE THE HELIOSPHERE. Astrophysical Journal, 2010, 710, 1769-1775.	4.5	131
42	THE DEPENDENCE OF MAGNETIC RECONNECTION ON PLASMA Î² AND MAGNETIC SHEAR: EVIDENCE FROM SOLAR WIND OBSERVATIONS. Astrophysical Journal Letters, 2010, 719, L199-L203.	8.3	130
43	THE POWER-LAW SPECTRA OF ENERGETIC PARTICLES DURING MULTI-ISLAND MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2013, 763, L5.	8.3	130
44	The scaling of embedded collisionless reconnection. Physics of Plasmas, 2004, 11, 2199-2213.	1.9	126
45	Microtearing Modes and Anomalous Transport in Tokamaks. Physical Review Letters, 1980, 44, 994-997.	7.8	125
46	Evidence and theory for trapped electrons in guide field magnetotail reconnection. Journal of Geophysical Research, 2008, 113, .	3.3	124
47	Stabilization of the tearing mode in high-temperature plasma. Physics of Fluids, 1983, 26, 2509.	1.4	118
48	The dependence of magnetic reconnection on plasma Î² and magnetic shear: Evidence from magnetopause observations. Geophysical Research Letters, 2013, 40, 11-16.	4.0	109
49	Peeling of convection cells and the generation of sheared flow. Physics of Fluids B, 1992, 4, 488-491.	1.7	108
50	Electron temperature gradient driven microtearing mode. Physics of Fluids, 1980, 23, 1182.	1.4	107
51	Kinetic signatures of the region surrounding the X line in asymmetric (magnetopause) reconnection. Geophysical Research Letters, 2016, 43, 4145-4154.	4.0	106
52	Nonlinear Evolution of Collisionless and Semicollisional Tearing Modes. Physical Review Letters, 1977, 39, 453-456.	7.8	105
53	Scaling of Sweetâ€"Parker reconnection with secondary islands. Physics of Plasmas, 2009, 16, 120702.	1.9	104
54	MAGNETIZED JETS DRIVEN BY THE SUN: THE STRUCTURE OF THE HELIOSPHERE REVISITED. Astrophysical Journal Letters, 2015, 800, L28.	8.3	103

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55	Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow AlfvÃ©n speed and magnetic shear. Geophysical Research Letters, 2013, 40, 4475-4480.	4.0	101
56	Breakup of the electron current layer during 3-D collisionless magnetic reconnection. Geophysical Research Letters, 1997, 24, 2921-2924.	4.0	100
57	MMS observations of electronâ€scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069.	4.0	99
58	Collisionless reconnection and the sawtooth crash. Physical Review Letters, 1991, 66, 1458-1461.	7.8	96
59	Evidence for collisionless magnetic reconnection at Mars. Geophysical Research Letters, 2008, 35, .	4.0	94
60	Nonlinear reduced fluid equations for toroidal plasmas. Physics of Fluids, 1984, 27, 898.	1.4	93
61	Streamer Formation in Plasma with a Temperature Gradient. Physical Review Letters, 1988, 61, 2205-2208.	7.8	85
62	Inherently three dimensional magnetic reconnection: A mechanism for bursty bulk flows?. Geophysical Research Letters, 2003, 30, .	4.0	84
63	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544.	4.0	84
64	Electron acceleration in three-dimensional magnetic reconnection with a guide field. Physics of Plasmas, 2015, 22, .	1.9	83
65	Enhancement of Turbulence in Tokamaks by Magnetic Fluctuations. Physical Review Letters, 1997, 79, 229-232.	7.8	82
66	Orientation of the reconnection X-line. Geophysical Research Letters, 2007, 34, .	4.0	82
67	The effects of turbulence on threeâ€dimensional magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 6020-6027.	4.0	80
68	Spontaneous poloidal spinâ€up of tokamak plasmas: Reduced equations, physical mechanism, and sonic regimes. Physics of Fluids B, 1993, 5, 4022-4029.	1.7	77
69	Local variables affecting H-mode threshold on Alcator C-Mod. Plasma Physics and Controlled Fusion, 1998, 40, 689-692.	2.1	77
70	Threeâ€dimensional fluid simulations of tokamak edge turbulence. Physics of Plasmas, 1996, 3, 2951-2960.	1.9	76
71	Transition from antiparallel to component magnetic reconnection. Journal of Geophysical Research, 2005, 110, .	3.3	76
72	Energy Partition in Magnetic Reconnection in Earthâ€™s Magnetotail. Physical Review Letters, 2013, 110, 225001.	7.8	75

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73	Temporally Growing Raman Backscattering Instabilities in an Inhomogeneous Plasma. Physical Review Letters, 1973, 31, 1197-1200.	7.8	74
74	Electron heating during magnetic reconnection: A simulation scaling study. Physics of Plasmas, 2014, 21, .	1.9	74
75	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	7.8	74
76	A statistical model of magnetic islands in a current layer. Physics of Plasmas, 2010, 17, .	1.9	73
77	Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow AlfvÃ©n speed and magnetic shear angle. Geophysical Research Letters, 2014, 41, 7002-7010.	4.0	73
78	A Model for Spontaneous Onset of Fast Magnetic Reconnection. Astrophysical Journal, 2006, 644, L145-L148.	4.5	72
79	Nonlinear evolution of driftâ€tearing modes. Physics of Fluids, 1985, 28, 275-277.	1.4	71
80	IS THE MAGNETIC FIELD IN THE HELIOSHEATH LAMINAR OR A TURBULENT SEA OF BUBBLES?. Astrophysical Journal, 2011, 734, 71.	4.5	71
81	The competition of electron and ion heating during magnetic reconnection. Geophysical Research Letters, 2015, 42, 9657-9665.	4.0	70
82	Onset of Fast Magnetic Reconnection. Physical Review Letters, 2007, 98, 215001.	7.8	69
83	Electron holes and heating in the reconnection dissipation region. Geophysical Research Letters, 2010, 37, .	4.0	69
84	Parallel electric fields are inefficient drivers of energetic electrons in magnetic reconnection. Physics of Plasmas, 2016, 23, .	1.9	68
85	The structure of the magnetic reconnection exhaust boundary. Physics of Plasmas, 2012, 19, .	1.9	67
86	Nonlinear Self-Sustained Drift-Wave Turbulence. Physical Review Letters, 1995, 75, 4222-4225.	7.8	66
87	Super-AlfvÃ©nic Propagation of Substorm Reconnection Signatures and Poynting Flux. Physical Review Letters, 2011, 107, 065001.	7.8	66
88	Magnetospheric Multiscale observations of largeâ€amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	4.0	66
89	ENERGETIC PROTONS, RADIONUCLIDES, AND MAGNETIC ACTIVITY IN PROTOSTELLAR DISKS. Astrophysical Journal, 2009, 703, 2152-2159.	4.5	65
90	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. Astrophysical Journal, Supplement Series, 2020, 246, 34.	7.7	65

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91	Secondary Magnetic Islands Generated by the Kelvin-Helmholtz Instability in a Reconnecting Current Sheet. Physical Review Letters, 2012, 108, 255005.	7.8	63
92	Diamagnetic stabilization of ideal ballooning modes in the edge pedestal. Physics of Plasmas, 1999, 6, 2797-2801.	1.9	62
93	Stochastic EÃ—B particle transport. Physics of Fluids, 1984, 27, 1686.	1.4	61
94	Signatures of collisionless magnetic reconnection. Journal of Geophysical Research, 2003, 108, .	3.3	61
95	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	7.8	61
96	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. Physics of Plasmas, 2019, 26, .	1.9	61
97	Current Fragmentation and Particle Acceleration in Solar Flares. Space Science Reviews, 2012, 173, 223-245.	8.1	59
98	Breaking of Large-Amplitude Waves as a Result of Relativistic Electron-Mass Variation. Physical Review Letters, 1976, 36, 196-200.	7.8	57
99	On the role of the lower hybrid drift instability in substorm dynamics. Journal of Geophysical Research, 1981, 86, 5881-5884.	3.3	57
100	Local Negative Shear and the Formation of Transport Barriers. Physical Review Letters, 1996, 77, 494-497.	7.8	57
101	Ion temperature anisotropy across a magnetotail reconnection jet. Geophysical Research Letters, 2015, 42, 7239-7247.	4.0	57
102	Analytic theory of resistive ballooning modes. Physics of Fluids, 1985, 28, 544.	1.4	56
103	Magnetic reconnection in collisionless plasmas: Prescribed fields. Journal of Geophysical Research, 1990, 95, 18833-18848.	3.3	55
104	SUPPRESSION OF ELECTRON THERMAL CONDUCTION IN THE HIGH Î² INTRACLUSTER MEDIUM OF GALAXY CLUSTERS. Astrophysical Journal Letters, 2016, 830, L9.	8.3	54
105	Theory and Modeling for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 577-630.	8.1	53
106	Prominence formation in a coronal loop. Astrophysical Journal, 1990, 359, 228.	4.5	53
107	Formation of a localized acceleration potential during magnetic reconnection with a guide field. Physics of Plasmas, 2009, 16, .	1.9	52
108	Observation and Interpretation of Magnetic-Field-Line Reconnection and Tearing in a Theta Pinch. Physical Review Letters, 1979, 42, 228-231.	7.8	50

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109	On the 3â€Ð structure and dissipation of reconnectionâ€driven flow bursts. Geophysical Research Letters, 2014, 41, 3710-3716.	4.0	50
110	Instability of fluid vortices and generation of sheared flow. Physics of Fluids B, 1992, 4, 2758-2768.	1.7	49
111	Transition from resistive ballooning to Î·i driven turbulence in tokamaks. Physics of Plasmas, 1998, 5, 2654-2663.	1.9	49
112	THE ACCELERATION OF IONS IN SOLAR FLARES DURING MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2011, 743, L35.	8.3	49
113	Dynamics of the Sawtooth Collapse in Tokamak Plasmas. Physical Review Letters, 1994, 73, 971-974.	7.8	48
114	Nonlinear mode coupling theory of the lower-hybrid-drift instability. Physics of Fluids, 1984, 27, 1148.	1.4	47
115	Skin Currents and Compound Sawteeth in Tokamaks. Physical Review Letters, 1986, 56, 2477-2480.	7.8	47
116	Stability of resistive and ideal ballooning modes in the Texas Experimental Tokamak and DIIIâ€Ð. Physics of Fluids B, 1992, 4, 1846-1854.	1.7	47
117	Theory and simulation of Kelvin-Helmholtz instability in the geomagnetic tail. Journal of Geophysical Research, 1996, 101, 27327-27339.	3.3	47
118	Nonlinear Development of Streaming Instabilities in Strongly Magnetized Plasma. Physical Review Letters, 2009, 102, 145004.	7.8	47
119	Kinetic theory of m=1 internal instabilities. Physics of Fluids, 1978, 21, 1777.	1.4	46
120	Radiative instabilities in a sheared magnetic field. Physics of Fluids, 1988, 31, 813.	1.4	46
121	Asymmetric magnetic reconnection with a flow shear and applications to the magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 7748-7763.	2.4	46
122	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986.	4.0	46
123	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at 35.7 R_{âŠ™} Radii. Astrophysical Journal Letters, 2020, 891, L20.	8.3	46
124	Catastrophic onset of fast magnetic reconnection with a guide field. Physics of Plasmas, 2007, 14, 054502.	1.9	45
125	Universality of Lower Hybrid Waves at Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 8727-8760.	2.4	45
126	A POROUS, LAYERED HELIOPAUSE. Astrophysical Journal Letters, 2013, 774, L8.	8.3	44

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127	Physical mechanism of enhanced stability from negative shear in tokamaks: Implications for edge transport and the Lâ€H transition. Physics of Plasmas, 1996, 3, 2221-2223.	1.9	43
128	Magnitude of the Hall fields during magnetic reconnection. Geophysical Research Letters, 2010, 37, .	4.0	43
129	Influence of asymmetries and guide fields on the magnetic reconnection diffusion region in collisionless space plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124001.	2.1	43
130	A MODEL OF THE HELIOSPHERE WITH JETS. Astrophysical Journal Letters, 2015, 808, L44.	8.3	43
131	Comparison of a statistical model for magnetic islands in large current layers with Hall MHD simulations and Cluster FTE observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42
132	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	4.0	41
133	Magnetic field diffusion and dissipation in reversed-field plasmas. Physics of Fluids, 1981, 24, 78.	1.4	40
134	â€˜â€˜Stabilizationâ€™â€™ of the lower-hybrid-drift instability in finite-Î² plasmas. Physics of Fluids, 1983, 26, 2247.	1.4	39
135	Density limit disruptions in tokamaks. Physics of Fluids B, 1991, 3, 372-383.	1.7	39
136	Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. Geophysical Research Letters, 2007, 34, .	4.0	38
137	Development of a Turbulent Outflow During Electronâ€Positron Magnetic Reconnection. Astrophysical Journal, 2008, 680, 999-1008.	4.5	38
138	THE EFFECTS OF PLASMA BETA AND ANISOTROPY INSTABILITIES ON THE DYNAMICS OF RECONNECTING MAGNETIC FIELDS IN THE HELIOSHEATH. Astrophysical Journal, 2011, 743, 70.	4.5	38
139	ON THE ROTATION OF THE MAGNETIC FIELD ACROSS THE HELIOPAUSE. Astrophysical Journal Letters, 2013, 778, L26.	8.3	38
140	New unstable branch of drift resistive ballooning modes in tokamaks. Physics of Plasmas, 1995, 2, 781-791.	1.9	37
141	Turbulence in Threeâ€Dimensional Simulations of Magnetopause Reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 11,086.	2.4	37
142	A computational model for exploring particle acceleration during reconnection in macroscale systems. Physics of Plasmas, 2019, 26, .	1.9	37
143	A model of the bifurcated current sheet: 2. Flapping motions. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	36
144	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	4.0	36

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145	Theory of ion temperature gradient instabilities: Thresholds and transport. Physics of Fluids B, 1990, 2, 1822-1832.	1.7	35
146	Magnetic explosions in space. Nature, 2001, 410, 525-526.	27.8	35
147	Irreversibility and transport in the lower hybrid drift instability. Physics of Fluids, 1981, 24, 1115.	1.4	34
148	Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577.	4.0	34
149	The rippling instability. Physics of Fluids, 1983, 26, 133.	1.4	33
150	The onset of turbulence in collisionless magnetic reconnection. Geophysical Research Letters, 2000, 27, 3157-3160.	4.0	33
151	Equations of state in collisionless magnetic reconnection. Physics of Plasmas, 2010, 17, .	1.9	33
152	Ion Heating and Acceleration During Magnetic Reconnection Relevant to the Corona. Space Science Reviews, 2012, 172, 227-240.	8.1	33
153	The development of a bursty precipitation front with intense localized parallel electric fields driven by whistler waves. Geophysical Research Letters, 2015, 42, 2563-2570.	4.0	33
154	Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems. Astrophysical Journal, 2018, 867, 154.	4.5	33
155	Turbulence and transport in the magnetopause current layer. Journal of Geophysical Research, 1994, 99, 11211.	3.3	32
156	THE IMPACT OF MICROSCOPIC MAGNETIC RECONNECTION ON PRE-FLARE ENERGY STORAGE. Astrophysical Journal, 2009, 707, L158-L162.	4.5	32
157	The Acceleration Mechanism of Anomalous Cosmic Rays. Space Science Reviews, 2012, 173, 283-307.	8.1	32
158	Magnetic Reconnection in ToroidalÎ·iMode Turbulence. Physical Review Letters, 2000, 84, 99-102.	7.8	31
159	The onset of ion heating during magnetic reconnection with a strong guide field. Physics of Plasmas, 2014, 21, .	1.9	31
160	Physical mechanism of wave-particle resonances in an inhomogeneous magnetic field. I. Linear theory. Physics of Fluids, 1981, 24, 1650.	1.4	30
161	Formation of the shear layer in toroidal edge plasma. Physics of Fluids B, 1993, 5, 1188-1199.	1.7	30
162	Electron holes in the outer radiation belt: Characteristics and their role in electron energization. Journal of Geophysical Research: Space Physics, 2017, 122, 120-135.	2.4	30

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163	Nonlinear Stability of Drift-Tearing Modes. Physical Review Letters, 1985, 54, 1027-1030.	7.8	28
164	Three-dimensional equilibrium and stability of ionospheric plasma clouds. Physics of Fluids, 1988, 31, 3412.	1.4	28
165	Ion tearing in a magnetotail configuration with an embedded thin current sheet. Journal of Geophysical Research, 1992, 97, 16749-16756.	3.3	28
166	Wave associated anomalous drag during magnetic field reconnection. Physics of Plasmas, 2011, 18, .	1.9	28
167	Saturation of the lower-hybrid-drift instability by mode coupling. Physics of Fluids, 1983, 26, 601.	1.4	27
168	Structure of the dissipation region during magnetic reconnection in collisionless plasma. Journal of Geophysical Research, 1991, 96, 11539-11553.	3.3	27
169	On phase diagrams of magnetic reconnection. Physics of Plasmas, 2013, 20, .	1.9	27
170	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particleâ€inâ€Cell Simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,523.	2.4	27
171	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. Geophysical Research Letters, 2018, 45, 2168-2176.	4.0	27
172	The lower hybrid drift instability in nonantiparallel reversed field plasmas. Journal of Geophysical Research, 1982, 87, 1697-1701.	3.3	26
173	The fast crash of the central temperature during sawteeth in tokamaks. Physics of Fluids, 1987, 30, 2119.	1.4	26
174	Three-dimensional simulations of the parallel velocity shear instability. Physics of Plasmas, 1997, 4, 300-309.	1.9	26
175	ON THE CAUSE OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES. Astrophysical Journal Letters, 2013, 775, L14.	8.3	26
176	The Twist of the Draped Interstellar Magnetic Field Ahead of the Heliopause: A Magnetic Reconnection Driven Rotational Discontinuity. Astrophysical Journal Letters, 2017, 839, L12.	8.3	26
177	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. Geophysical Research Letters, 2018, 45, 5260-5267.	4.0	26
178	The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. I. Particle-in-cell simulations. Physics of Plasmas, 2011, 18, .	1.9	25
179	NEAR THE BOUNDARY OF THE HELIOSPHERE: A FLOW TRANSITION REGION. Astrophysical Journal, 2012, 751, 80.	4.5	25
180	Linear stability of high-m drift-tearing modes. Physics of Fluids, 1980, 23, 771.	1.4	24

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181	The hall effect in magnetic reconnection: Hybrid versus Hallâ€less hybrid simulations. Geophysical Research Letters, 2009, 36, .	4.0	24
182	SUPPRESSION OF ENERGETIC ELECTRON TRANSPORT IN FLARES BY DOUBLE LAYERS. Astrophysical Journal, 2012, 757, 20.	4.5	24
183	Fast magnetic reconnection due to anisotropic electron pressure. Physics of Plasmas, 2015, 22, .	1.9	24
184	Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. Physics of Plasmas, 2016, 23, .	1.9	24
185	Impact of Frustrated Singularities on Magnetic Island Evolution. Physical Review Letters, 2003, 91, 125002.	7.8	23
186	Equation Free Projective Integration: A multiscale method applied to a plasma ion acoustic wave. Journal of Computational Physics, 2007, 226, 571-585.	3.8	23
187	The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. II. Theory. Physics of Plasmas, 2011, 18, .	1.9	23
188	MAGNETIC FLUX CONSERVATION IN THE HELIOSHEATH. Astrophysical Journal Letters, 2013, 762, L14.	8.3	23
189	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. Geophysical Research Letters, 2020, 47, e2020GL089082.	4.0	23
190	Loss of static equilibrium, flow generation and the development of turbulence at the edge of tokamaks. Nuclear Fusion, 1992, 32, 1657-1661.	3.5	22
191	Test of methods to infer the magnetic reconnection geometry from spacecraft data. Journal of Geophysical Research, 2010, 115, .	3.3	22
192	Threeâ€dimensional simulation study of ionospheric plasma clouds. Geophysical Research Letters, 1990, 17, 1597-1600.	4.0	21
193	Three-dimensional simulations of the orientation and structure of reconnection X-lines. Physics of Plasmas, 2010, 17, .	1.9	21
194	A saddle-node bifurcation model of magnetic reconnection onset. Physics of Plasmas, 2010, 17, .	1.9	21
195	Collisional drift waves in a plasma with electron temperature inhomogeneity. Physics of Fluids, 1981, 24, 1262.	1.4	20
196	Dynamics of three dimensional ionospheric plasma clouds. Physical Review Letters, 1987, 58, 278-281.	7.8	20
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