James F Drake

List of Publications by Citations

264	17,775	69	123
papers	citations	h-index	g-index
267	18,946	5.8	6.54
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
264	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. *Journal of Geophysical Research*, **2001**, 106, 3715-3719		970
263	Electron acceleration from contracting magnetic islands during reconnection. *Nature*, **2006**, 443, 553-6	50.4	682
262	Parametric instabilities of electromagnetic waves in plasmas. *Physics of Fluids*, **1974**, 17, 778		675
261	Electron-scale measurements of magnetic reconnection in space. *Science*, **2016**, 352, aaf2939	33.3	418
260	Kinetic theory of tearing instabilities. *Physics of Fluids*, **1977**, 20, 1341		366
259	Alfvïic collisionless magnetic reconnection and the Hall term. *Journal of Geophysical Research*, **2001**, 106, 3759-3772		361
258	Formation of electron holes and particle energization during magnetic reconnection. *Science*, **2003**, 299, 873-7	33.3	335
257	The FIELDS Instrument Suite for Solar Probe Plus: Measuring the Coronal Plasma and Magnetic Field, Plasma Waves and Turbulence, and Radio Signatures of Solar Transients. *Space Science Reviews*, **2016**, 204, 49-82	7.5	303
256	Structure of the dissipation region during collisionless magnetic reconnection. *Journal of Geophysical Research*, **1998**, 103, 9165-9176		301
255	Transition to whistler mediated magnetic reconnection. *Geophysical Research Letters*, **1994**, 21, 73-76	4.9	275
254	Two-scale structure of the electron dissipation region during collisionless magnetic reconnection. *Physical Review Letters*, **2007**, 99, 155002	7.4	240
253	Three-dimensional fluid simulations of the nonlinear drift-resistive ballooning modes in tokamak edge plasmas. *Physics of Fluids B*, **1993**, 5, 3712-3727		223
252	The scaling of collisionless, magnetic reconnection for large systems. *Geophysical Research Letters*, **1999**, 26, 2163-2166	4.9	217
251	Cluster observations of electron holes in association with magnetotail reconnection and comparison to simulations. *Journal of Geophysical Research*, **2005**, 110,		216
250	Phase Space of Tokamak Edge Turbulence, the L–H Transition, and the Formation of the Edge Pedestal. *Physical Review Letters*, **1998**, 81, 4396-4399	7.4	211
249	Role of dispersive waves in collisionless magnetic reconnection. *Physical Review Letters*, **2001**, 87, 195004	7.4	210
248	Two-dimensional electron magnetohydrodynamic turbulence. *Physical Review Letters*, **1996**, 76, 1264-1267	7.4	210

247	A MAGNETIC RECONNECTION MECHANISM FOR THE GENERATION OF ANOMALOUS COSMIC RAYS. *Astrophysical Journal*, **2010**, 709, 963-974	4.7	207
246	Formation of secondary islands during magnetic reconnection. *Geophysical Research Letters*, **2006**, 33,	4.9	202
245	Three-dimensional particle simulations of collisionless magnetic reconnection. *Journal of Geophysical Research*, **2002**, 107, SMP 6-1		200
244	Nonlinear reduced Braginskii equations with ion thermal dynamics in toroidal plasma. *Physics of Plasmas*, **1997**, 4, 2134-2138	2.1	183
243	Electron magnetohydrodynamic turbulence. *Physics of Plasmas*, **1999**, 6, 751-758	2.1	183
242	Two-fluid theory of collisionless magnetic reconnection. *Physics of Plasmas*, **1997**, 4, 1002-1009	2.1	181
241	The role of electron dissipation on the rate of collisionless magnetic reconnection. *Geophysical Research Letters*, **1998**, 25, 3759-3762	4.9	180
240	Production of energetic electrons during magnetic reconnection. *Physical Review Letters*, **2005**, 94, 095001	7.4	175
239	Spontaneous poloidal spin-up of tokamaks and the transition to the H mode. *Physical Review Letters*, **1991**, 66, 309-312	7.4	162
238	The Hall fields and fast magnetic reconnection. *Physics of Plasmas*, **2008**, 15, 042306	2.1	153
237	Linear analysis of the double-tearing mode. *Physics of Fluids*, **1980**, 23, 1368		147
236	Lower-hybrid-drift instability in field reversed plasmas. *Physics of Fluids*, **1980**, 23, 552		146
235	Ion-controlled collisionless magnetic reconnection. *Physical Review Letters*, **1995**, 75, 3850-3853	7.4	145
234	Structure of thin current layers: Implications for magnetic reconnection. *Physical Review Letters*, **1994**, 73, 1251-1254	7.4	141
233	Catastrophe model for fast magnetic reconnection onset. *Physical Review Letters*, **2005**, 95, 235002	7.4	140
232	Marfes: Radiative condensation in tokamak edge plasma. *Physics of Fluids*, **1987**, 30, 2429		140
231	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. *Science*, **2018**, 362, 1391-1395	33.3	139
230	Ion heating resulting from pickup in magnetic reconnection exhausts. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		135

229	Fast reconnection in high temperature plasmas. *Physics of Plasmas*, **1995**, 2, 23-34	2.1	135
228	Evidence for an elongated (>60 ion skin depths) electron diffusion region during fast magnetic reconnection. *Physical Review Letters*, **2007**, 99, 255002	7.4	133
227	The mechanisms of electron heating and acceleration during magnetic reconnection. *Physics of Plasmas*, **2014**, 21, 092304	2.1	131
226	A MAGNETIC RECONNECTION MECHANISM FOR ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMPULSIVE FLARES. *Astrophysical Journal*, **2009**, 700, L16-L20	4.7	131
225	The scaling of embedded collisionless reconnection. *Physics of Plasmas*, **2004**, 11, 2199-2213	2.1	123
224	THE VECTOR DIRECTION OF THE INTERSTELLAR MAGNETIC FIELD OUTSIDE THE HELIOSPHERE. *Astrophysical Journal*, **2010**, 710, 1769-1775	4.7	118
223	A current filamentation mechanism for breaking magnetic field lines during reconnection. *Nature*, **2011**, 474, 184-7	50.4	117
222	THE DEPENDENCE OF MAGNETIC RECONNECTION ON PLASMA AND MAGNETIC SHEAR: EVIDENCE FROM SOLAR WIND OBSERVATIONS. *Astrophysical Journal Letters*, **2010**, 719, L199-L203	7.9	113
221	Evidence and theory for trapped electrons in guide field magnetotail reconnection. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		111
220	Stabilization of the tearing mode in high-temperature plasma. *Physics of Fluids*, **1983**, 26, 2509		111
219	Peeling of convection cells and the generation of sheared flow. *Physics of Fluids B*, **1992**, 4, 488-491		105
218	THE POWER-LAW SPECTRA OF ENERGETIC PARTICLES DURING MULTI-ISLAND MAGNETIC RECONNECTION. *Astrophysical Journal Letters*, **2013**, 763, L5	7.9	104
217	Microtearing Modes and Anomalous Transport in Tokamaks. *Physical Review Letters*, **1980**, 44, 994-997	7.4	102
216	Scaling of Sweet Parker reconnection with secondary islands. *Physics of Plasmas*, **2009**, 16, 120702	2.1	98
215	Collisionless reconnection and the sawtooth crash. *Physical Review Letters*, **1991**, 66, 1458-1461	7.4	95
214	Breakup of the electron current layer during 3-D collisionless magnetic reconnection. *Geophysical Research Letters*, **1997**, 24, 2921-2924	4.9	94
213	Nonlinear Evolution of Collisionless and Semicollisional Tearing Modes. *Physical Review Letters*, **1977**, 39, 453-456	7.4	94
212	Kinetic signatures of the region surrounding the X line in asymmetric (magnetopause) reconnection. *Geophysical Research Letters*, **2016**, 43, 4145-4154	4.9	92

211	Nonlinear reduced fluid equations for toroidal plasmas. *Physics of Fluids*, **1984**, 27, 898		89
210	Electron temperature gradient driven microtearing mode. *Physics of Fluids*, **1980**, 23, 1182		88
209	The dependence of magnetic reconnection on plasma β and magnetic shear: Evidence from magnetopause observations. *Geophysical Research Letters*, **2013**, 40, 11-16	4.9	86
208	Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear. *Geophysical Research Letters*, **2013**, 40, 4475-4480	4.9	86
207	Streamer formation in plasma with a temperature gradient. *Physical Review Letters*, **1988**, 61, 2205-2208	7.4	80
206	MAGNETIZED JETS DRIVEN BY THE SUN: THE STRUCTURE OF THE HELIOSPHERE REVISITED. *Astrophysical Journal Letters*, **2015**, 800, L28	7.9	77
205	Evidence for collisionless magnetic reconnection at Mars. *Geophysical Research Letters*, **2008**, 35,	4.9	77
204	Inherently three dimensional magnetic reconnection: A mechanism for bursty bulk flows?. *Geophysical Research Letters*, **2003**, 30,	4.9	76
203	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. *Geophysical Research Letters*, **2016**, 43, 6060-6069	4.9	76
202	Enhancement of Turbulence in Tokamaks by Magnetic Fluctuations. *Physical Review Letters*, **1997**, 79, 229-232	7.4	75
201	Orientation of the reconnection X-line. *Geophysical Research Letters*, **2007**, 34,	4.9	72
200	Three-dimensional fluid simulations of tokamak edge turbulence. *Physics of Plasmas*, **1996**, 3, 2951-2960	2.1	72
199	Spontaneous poloidal spin-up of tokamak plasmas: Reduced equations, physical mechanism, and sonic regimes. *Physics of Fluids B*, **1993**, 5, 4022-4029		72
198	Local variables affecting H-mode threshold on Alcator C-Mod. *Plasma Physics and Controlled Fusion*, **1998**, 40, 689-692	2	71
197	Transition from antiparallel to component magnetic reconnection. *Journal of Geophysical Research*, **2005**, 110,		70
196	Nonlinear evolution of drift-tearing modes. *Physics of Fluids*, **1985**, 28, 275-277		70
195	A statistical model of magnetic islands in a current layer. *Physics of Plasmas*, **2010**, 17, 010702	2.1	69
194	A Model for Spontaneous Onset of Fast Magnetic Reconnection. *Astrophysical Journal*, **2006**, 644, L145-L148	4.7	69

193	The effects of turbulence on three-dimensional magnetic reconnection at the magnetopause. *Geophysical Research Letters*, **2016**, 43, 6020-6027	4.9	67
192	Onset of fast magnetic reconnection. *Physical Review Letters*, **2007**, 98, 215001	7.4	67
191	IS THE MAGNETIC FIELD IN THE HELIOSHEATH LAMINAR OR A TURBULENT SEA OF BUBBLES?. *Astrophysical Journal*, **2011**, 734, 71	4.7	66
190	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	4.9	65
189	Energy partition in magnetic reconnection in Earth's magnetotail. *Physical Review Letters*, **2013**, 110, 225001	7.4	65
188	Nonlinear Self-Sustained Drift-Wave Turbulence. *Physical Review Letters*, **1995**, 75, 4222-4225	7.4	65
187	Temporally Growing Raman Backscattering Instabilities in an Inhomogeneous Plasma. *Physical Review Letters*, **1973**, 31, 1197-1200	7.4	65
186	Diamagnetic stabilization of ideal ballooning modes in the edge pedestal. *Physics of Plasmas*, **1999**, 6, 2797-2801	2.1	62
185	Electron acceleration in three-dimensional magnetic reconnection with a guide field. *Physics of Plasmas*, **2015**, 22, 100704	2.1	61
184	The structure of the magnetic reconnection exhaust boundary. *Physics of Plasmas*, **2012**, 19, 022110	2.1	61
183	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. *Physical Review Letters*, **2016**, 117, 015001	7.4	60
182	The competition of electron and ion heating during magnetic reconnection. *Geophysical Research Letters*, **2015**, 42, 9657-9665	4.9	58
181	Electron heating during magnetic reconnection: A simulation scaling study. *Physics of Plasmas*, **2014** , 21, 122902	2.1	58
180	Super-Alfvﬁic propagation of substorm reconnection signatures and Poynting flux. *Physical Review Letters*, **2011**, 107, 065001	7.4	57
179	ENERGETIC PROTONS, RADIONUCLIDES, AND MAGNETIC ACTIVITY IN PROTOSTELLAR DISKS. *Astrophysical Journal*, **2009**, 703, 2152-2159	4.7	57
178	Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow Alfvﬁ speed and magnetic shear angle. *Geophysical Research Letters*, **2014**, 41, 7002-7010	4.9	56
177	Electron holes and heating in the reconnection dissipation region. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	56
176	Signatures of collisionless magnetic reconnection. *Journal of Geophysical Research*, **2003**, 108,		56

175	Local Negative Shear and the Formation of Transport Barriers. *Physical Review Letters*, **1996**, 77, 494-497	7.4	56
174	Stochastic E**B** particle transport. *Physics of Fluids*, **1984**, 27, 1686		56
173	Analytic theory of resistive ballooning modes. *Physics of Fluids*, **1985**, 28, 544		54
172	Parallel electric fields are inefficient drivers of energetic electrons in magnetic reconnection. *Physics of Plasmas*, **2016**, 23, 120704	2.1	53
171	Magnetic reconnection in collisionless plasmas: Prescribed fields. *Journal of Geophysical Research*, **1990**, 95, 18833		52
170	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. *Physical Review Letters*, **2016**, 116, 235102	7.4	50
169	Ion temperature anisotropy across a magnetotail reconnection jet. *Geophysical Research Letters*, **2015**, 42, 7239-7247	4.9	50
168	Current Fragmentation and Particle Acceleration in Solar Flares. *Space Science Reviews*, **2012**, 173, 223-245	7.3	50
167	On the role of the lower hybrid drift instability in substorm dynamics. *Journal of Geophysical Research*, **1981**, 86, 5881		50
166	Breaking of Large-Amplitude Waves as a Result of Relativistic Electron-Mass Variation. *Physical Review Letters*, **1976**, 36, 196-200	7.4	50
165	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. *Geophysical Research Letters*, **2016**, 43, 5626-5634	4.9	49
164	Secondary magnetic islands generated by the Kelvin-Helmholtz instability in a reconnecting current sheet. *Physical Review Letters*, **2012**, 108, 255005	7.4	49
163	Formation of a localized acceleration potential during magnetic reconnection with a guide field. *Physics of Plasmas*, **2009**, 16, 050701	2.1	48
162	On the 3-D structure and dissipation of reconnection-driven flow bursts. *Geophysical Research Letters*, **2014**, 41, 3710-3716	4.9	47
161	Prominence formation in a coronal loop. *Astrophysical Journal*, **1990**, 359, 228	4.7	47
160	Transition from resistive ballooning to i-driven turbulence in tokamaks. *Physics of Plasmas*, **1998**, 5, 2654-2663	2.2	46
159	Dynamics of the sawtooth collapse in tokamak plasmas. *Physical Review Letters*, **1994**, 73, 971-974	7.4	46
158	Instability of fluid vortices and generation of sheared flow. *Physics of Fluids B*, **1992**, 4, 2758-2768		46

157	Skin currents and compound sawteeth in tokamaks. *Physical Review Letters*, **1986**, 56, 2477-2480	7.4	46
156	Nonlinear mode coupling theory of the lower-hybrid-drift instability. *Physics of Fluids*, **1984**, 27, 1148		46
155	Stability of resistive and ideal ballooning modes in the Texas Experimental Tokamak and DIII-D. *Physics of Fluids B*, **1992**, 4, 1846-1854		45
154	Nonlinear development of streaming instabilities in strongly magnetized plasma. *Physical Review Letters*, **2009**, 102, 145004	7.4	44
153	THE ACCELERATION OF IONS IN SOLAR FLARES DURING MAGNETIC RECONNECTION. *Astrophysical Journal Letters*, **2011**, 743, L35	7.9	43
152	Radiative instabilities in a sheared magnetic field. *Physics of Fluids*, **1988**, 31, 813		43
151	Theory and Modeling for the Magnetospheric Multiscale Mission. *Space Science Reviews*, **2016**, 199, 577-630	7.9	42
150	Magnitude of the Hall fields during magnetic reconnection. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	42
149	Kinetic theory of m=1 internal instabilities. *Physics of Fluids*, **1978**, 21, 1777		42
148	Catastrophic onset of fast magnetic reconnection with a guide field. *Physics of Plasmas*, **2007**, 14, 054502	2.1	41
147	Theory and simulation of Kelvin-Helmholtz instability in the geomagnetic tail. *Journal of Geophysical Research*, **1996**, 101, 27327-27339		40
146	Physical mechanism of enhanced stability from negative shear in tokamaks: Implications for edge transport and the L-H transition. *Physics of Plasmas*, **1996**, 3, 2221-2223	2.1	39
145	Observation and Interpretation of Magnetic-Field-Line Reconnection and Tearing in a Theta Pinch. *Physical Review Letters*, **1979**, 42, 228-231	7.4	39
144	SUPPRESSION OF ELECTRON THERMAL CONDUCTION IN THE HIGH INTRACLUSTER MEDIUM OF GALAXY CLUSTERS. *Astrophysical Journal Letters*, **2016**, 830, L9	7.9	38
143	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. *Astrophysical Journal, Supplement Series*, **2020**, 246, 34	8	37
142	A POROUS, LAYERED HELIOPAUSE. *Astrophysical Journal Letters*, **2013**, 774, L8	7.9	37
141	New unstable branch of drift resistive ballooning modes in tokamaks. *Physics of Plasmas*, **1995**, 2, 781-791	2.1	37
140	Stabilization of the lower-hybrid-drift instability in finite- plasmas. *Physics of Fluids*, **1983**, 26, 2247		37

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138	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	36
137	THE EFFECTS OF PLASMA BETA AND ANISOTROPY INSTABILITIES ON THE DYNAMICS OF RECONNECTING MAGNETIC FIELDS IN THE HELIOSHEATH. *Astrophysical Journal*, **2011**, 743, 70	4.7	36
136	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. *Geophysical Research Letters*, **2017**, 44, 2978-2986	4.9	35
135	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. *Physics of Plasmas*, **2019**, 26, 082307	2.1	35
134	Asymmetric magnetic reconnection with a flow shear and applications to the magnetopause. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7748-7763	2.6	35
133	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		35
132	ON THE ROTATION OF THE MAGNETIC FIELD ACROSS THE HELIOPAUSE. *Astrophysical Journal Letters*, **2013**, 778, L26	7.9	34
131	Development of a Turbulent Outflow During Electron-Positron Magnetic Reconnection. *Astrophysical Journal*, **2008**, 680, 999-1008	4.7	34
130	Theory of ion temperature gradient instabilities: Thresholds and transport. *Physics of Fluids B*, **1990**, 2, 1822-1832		34
129	Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. *Geophysical Research Letters*, **2007**, 34,	4.9	33
128	Density limit disruptions in tokamaks. *Physics of Fluids B*, **1991**, 3, 372-383		33
127	A computational model for exploring particle acceleration during reconnection in macroscale systems. *Physics of Plasmas*, **2019**, 26, 012901	2.1	31
126	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. *Geophysical Research Letters*, **2018**, 45, 1237-1245	4.9	31
125	Equations of state in collisionless magnetic reconnectiona). *Physics of Plasmas*, **2010**, 17, 055703	2.1	31
124	The rippling instability. *Physics of Fluids*, **1983**, 26, 133		31
123	Magnetic reconnection in toroidal eta(i) mode turbulence. *Physical Review Letters*, **2000**, 84, 99-102	7.4	30
122	Formation of the shear layer in toroidal edge plasma. *Physics of Fluids B*, **1993**, 5, 1188-1199		30

121	The development of a bursty precipitation front with intense localized parallel electric fields driven by whistler waves. *Geophysical Research Letters*, **2015**, 42, 2563-2570	4.9	29
120	THE IMPACT OF MICROSCOPIC MAGNETIC RECONNECTION ON PRE-FLARE ENERGY STORAGE. *Astrophysical Journal*, **2009**, 707, L158-L162	4.7	29
119	The onset of turbulence in collisionless magnetic reconnection. *Geophysical Research Letters*, **2000**, 27, 3157-3160	4.9	29
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117	A model of the bifurcated current sheet: 2. Flapping motions. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	28
116	Nonlinear stability of drift-tearing modes. *Physical Review Letters*, **1985**, 54, 1027-1030	7.4	28
115	Ion Heating and Acceleration During Magnetic Reconnection Relevant to the Corona. *Space Science Reviews*, **2012**, 172, 227-240	7.5	27
114	The Acceleration Mechanism of Anomalous Cosmic Rays. *Space Science Reviews*, **2012**, 173, 283-307	7.5	27
113	Turbulence and transport in the magnetopause current layer. *Journal of Geophysical Research*, **1994**, 99, 11211		27
112	Structure of the dissipation region during magnetic reconnection in collisionless plasma. *Journal of Geophysical Research*, **1991**, 96, 11539		27
111	Physical mechanism of wave-particle resonances in an inhomogeneous magnetic field. I. Linear theory. *Physics of Fluids*, **1981**, 24, 1650		27
110	Magnetic field diffusion and dissipation in reversed-field plasmas. *Physics of Fluids*, **1981**, 24, 78		27
109	The onset of ion heating during magnetic reconnection with a strong guide field. *Physics of Plasmas*, **2014**, 21, 072903	2.1	26
108	Three-dimensional simulations of the parallel velocity shear instability. *Physics of Plasmas*, **1997**, 4, 300-309	2.1	26
107	Ion tearing in a magnetotail configuration with an embedded thin current sheet. *Journal of Geophysical Research*, **1992**, 97, 16749		26
106	The fast crash of the central temperature during sawteeth in tokamaks. *Physics of Fluids*, **1987**, 30, 2119		26
105	Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,086-11,099	2.6	25
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103	Wave associated anomalous drag during magnetic field reconnection. *Physics of Plasmas*, **2011**, 18, 102902	2.1	25
102	Irreversibility and transport in the lower hybrid drift instability. *Physics of Fluids*, **1981**, 24, 1115		25
101	Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems. *Astrophysical Journal* , **2018**, 867, 154	4.7	25
100	Electron holes in the outer radiation belt: Characteristics and their role in electron energization. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 120-135	2.6	24
99	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, 062110	2.1	24
98	Saturation of the lower-hybrid-drift instability by mode coupling. *Physics of Fluids*, **1983**, 26, 601		24
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96	Guide Field Reconnection: Exhaust Structure and Heating. *Geophysical Research Letters*, **2018**, 45, 4569-4577	4.7	23
95	NEAR THE BOUNDARY OF THE HELIOSPHERE: A FLOW TRANSITION REGION. *Astrophysical Journal*, **2012**, 751, 80	4.7	23
94	MAGNETIC FLUX CONSERVATION IN THE HELIOSHEATH. *Astrophysical Journal Letters*, **2013**, 762, L14	7.9	23
93	ON THE CAUSE OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES. *Astrophysical Journal Letters*, **2013**, 775, L14	7.9	23
92	The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. II. Theory. *Physics of Plasmas*, **2011**, 18, 092102	2.1	23
91	The hall effect in magnetic reconnection: Hybrid versus Hall-less hybrid simulations. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	23
90	Three-dimensional equilibrium and stability of ionospheric plasma clouds. *Physics of Fluids*, **1988**, 31, 3412		23
89	The lower hybrid drift instability in nonantiparallel reversed field plasmas. *Journal of Geophysical Research*, **1982**, 87, 1697-1701		23
88	Loss of static equilibrium, flow generation and the development of turbulence at the edge of tokamaks. *Nuclear Fusion*, **1992**, 32, 1657-1661	3.3	22
87	Universality of Lower Hybrid Waves at Earth's Magnetopause. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8727-8760	2.6	22
86	SUPPRESSION OF ENERGETIC ELECTRON TRANSPORT IN FLARES BY DOUBLE LAYERS. *Astrophysical Journal*, **2012**, 757, 20	4.7	21

85	Equation Free Projective Integration: A multiscale method applied to a plasma ion acoustic wave. *Journal of Computational Physics*, **2007**, 226, 571-585	4.1	21
84	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. *Geophysical Research Letters*, **2018**, 45, 5260-5267	4.9	21
83	Three-dimensional simulations of the orientation and structure of reconnection X-lines. *Physics of Plasmas*, **2010**, 17, 110704	2.1	20
82	A saddle-node bifurcation model of magnetic reconnection onset. *Physics of Plasmas*, **2010**, 17, 062105	2.1	20
81	Impact of frustrated singularities on magnetic island evolution. *Physical Review Letters*, **2003**, 91, 125002	7.4	20
80	Three-dimensional simulation of ?Ti-driven turbulence and transport. *Physics of Fluids B*, **1991**, 3, 1937-1944		20
79	Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. *Physics of Plasmas*, **2016**, 23, 052306	2.1	20
78	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. *Geophysical Research Letters*, **2018**, 45, 2168-2176	4.9	19
77	Test of methods to infer the magnetic reconnection geometry from spacecraft data. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		19
76	Linear stability of high-m drift-tearing modes. *Physics of Fluids*, **1980**, 23, 771		19
75	The Twist of the Draped Interstellar Magnetic Field Ahead of the Heliopause: A Magnetic Reconnection Driven Rotational Discontinuity. *Astrophysical Journal Letters*, **2017**, 839, L12	7.9	18
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