

James F Drake

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

264
papers

17,775
citations

69
h-index

123
g-index

267
ext. papers

18,946
ext. citations

5.8
avg. IF

6.54
L-index

#	Paper	IF	Citations
264	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022 , 29, 052904	2.1	1
263	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021 , 28, 122901	2.1	2
262	The reversibility of magnetic reconnection. <i>Physics of Plasmas</i> , 2021 , 28, 092107	2.1	1
261	Turbulence and Transport During Guide Field Reconnection at the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027498	2.6	3
260	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at 35.7 R _? Radii. <i>Astrophysical Journal Letters</i> , 2020 , 891, L20	7.9	28
259	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 34	8	37
258	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020 , 125, 265102	7.4	7
257	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082	4.9	11
256	Decomposition of plasma kinetic entropy into position and velocity space and the use of kinetic entropy in particle-in-cell simulations. <i>Physics of Plasmas</i> , 2019 , 26, 082903	2.1	13
255	Particle heating and energy partition in low- β guide field reconnection with kinetic Riemann simulations. <i>Physics of Plasmas</i> , 2019 , 26, 072115	2.1	13
254	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. <i>Physics of Plasmas</i> , 2019 , 26, 082307	2.1	35
253	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019 , 46, 1937-1946	4.9	23
252	A computational model for exploring particle acceleration during reconnection in macroscale systems. <i>Physics of Plasmas</i> , 2019 , 26, 012901	2.1	31
251	Large-scale parallel electric fields and return currents in a global simulation model. <i>Physics of Plasmas</i> , 2019 , 26, 102903	2.1	10
250	Instabilities and turbulence in low- β guide field reconnection exhausts with kinetic Riemann simulations. <i>Physics of Plasmas</i> , 2019 , 26, 102115	2.1	4
249	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10085-10103	2.6	11
248	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8727-8760	2.6	22

247	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. <i>Geophysical Research Letters</i> , 2018 , 45, 2168-2176	4.9	19
246	Guide Field Reconnection: Exhaust Structure and Heating. <i>Geophysical Research Letters</i> , 2018 , 45, 4569-4577	4.9	23
245	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
244	Super-Alfvénic Propagation and Damping of Reconnection Onset Signatures. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 341-349	2.6	6
243	Characterizing Ion Flows Across a Magnetotail Dipolarization Jet. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6326-6334	2.6	4
242	Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems. <i>Astrophysical Journal</i> , 2018 , 867, 154	4.7	25
241	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139
240	The reduction of magnetic reconnection outflow jets to sub-Alfvénic speeds. <i>Physics of Plasmas</i> , 2018 , 25, 102120	2.1	13
239	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 5260-5267	4.9	21
238	The Twist of the Draped Interstellar Magnetic Field Ahead of the Heliopause: A Magnetic Reconnection Driven Rotational Discontinuity. <i>Astrophysical Journal Letters</i> , 2017 , 839, L12	7.9	18
237	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986	4.9	35
236	The Formation of Magnetic Depletions and Flux Annihilation Due to Reconnection in the Heliosheath. <i>Astrophysical Journal</i> , 2017 , 837, 159	4.7	10
235	Electron holes in the outer radiation belt: Characteristics and their role in electron energization. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 120-135	2.6	24
234	Structure of Exhausts in Magnetic Reconnection with an X-line of Finite Extent. <i>Astrophysical Journal</i> , 2017 , 848, 90	4.7	4
233	Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,086-11,099	2.6	25
232	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,523-11,542	2.6	18
231	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5536-5544	4.9	65
230	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50

229	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001	7.4	60
228	The effects of turbulence on three-dimensional magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 6020-6027	4.9	67
227	VOYAGEROBSERVATIONS OF MAGNETIC SECTORS AND HELIOSPHERIC CURRENT SHEET CROSSINGS IN THE OUTER HELIOSPHERE. <i>Astrophysical Journal</i> , 2016 , 831, 115	4.7	7
226	Kinetic signatures of the region surrounding the X line in asymmetric (magnetopause) reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 4145-4154	4.9	92
225	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. <i>Space Science Reviews</i> , 2016 , 204, 49-82	7.5	303
224	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5626-5634	4.9	49
223	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016 , 199, 577-630	6.3	42
222	SUPPRESSION OF ELECTRON THERMAL CONDUCTION IN THE HIGH β INTRACLUSTER MEDIUM OF GALAXY CLUSTERS. <i>Astrophysical Journal Letters</i> , 2016 , 830, L9	7.9	38
221	Magnetized jets driven by the Sun: The structure of the heliosphere revisited. <i>Physics of Plasmas</i> , 2016 , 23, 056501	2.1	12
220	Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. <i>Physics of Plasmas</i> , 2016 , 23, 052306	2.1	20
219	Parallel electric fields are inefficient drivers of energetic electrons in magnetic reconnection. <i>Physics of Plasmas</i> , 2016 , 23, 120704	2.1	53
218	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
217	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016 , 43, 6060-6069	4.9	76
216	The development of a bursty precipitation front with intense localized parallel electric fields driven by whistler waves. <i>Geophysical Research Letters</i> , 2015 , 42, 2563-2570	4.9	29
215	Fast magnetic reconnection due to anisotropic electron pressure. <i>Physics of Plasmas</i> , 2015 , 22, 020705	2.1	17
214	The competition of electron and ion heating during magnetic reconnection. <i>Geophysical Research Letters</i> , 2015 , 42, 9657-9665	4.9	58
213	Electron acceleration in three-dimensional magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2015 , 22, 100704	2.1	61
212	Ion temperature anisotropy across a magnetotail reconnection jet. <i>Geophysical Research Letters</i> , 2015 , 42, 7239-7247	4.9	50

211	A MODEL OF THE HELIOSPHERE WITH JETS. <i>Astrophysical Journal Letters</i> , 2015 , 808, L44	7.9	36
210	Asymmetric magnetic reconnection with a flow shear and applications to the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7748-7763	2.6	35
209	MAGNETIZED JETS DRIVEN BY THE SUN: THE STRUCTURE OF THE HELIOSPHERE REVISITED. <i>Astrophysical Journal Letters</i> , 2015 , 800, L28	7.9	77
208	Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear angle. <i>Geophysical Research Letters</i> , 2014 , 41, 7002-7010	4.9	56
207	On the 3-D structure and dissipation of reconnection-driven flow bursts. <i>Geophysical Research Letters</i> , 2014 , 41, 3710-3716	4.9	47
206	DYNAMICS OF DOUBLE LAYERS, ION ACCELERATION, AND HEAT FLUX SUPPRESSION DURING SOLAR FLARES. <i>Astrophysical Journal</i> , 2014 , 793, 7	4.7	15
205	Electron heating during magnetic reconnection: A simulation scaling study. <i>Physics of Plasmas</i> , 2014 , 21, 122902	2.1	58
204	The mechanisms of electron heating and acceleration during magnetic reconnection. <i>Physics of Plasmas</i> , 2014 , 21, 092304	2.1	131
203	The onset of ion heating during magnetic reconnection with a strong guide field. <i>Physics of Plasmas</i> , 2014 , 21, 072903	2.1	26
202	Magnetic reconnection in the interior of interplanetary coronal mass ejections. <i>Physical Review Letters</i> , 2014 , 113, 031101	7.4	12
201	DEPENDENCE OF ENERGETIC ION AND ELECTRON INTENSITIES ON PROXIMITY TO THE MAGNETICALLY SECTORED HELIOSHEATH: VOYAGER 1 AND 2 OBSERVATIONS. <i>Astrophysical Journal</i> , 2014 , 781, 94	4.7	15
200	A POROUS, LAYERED HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2013 , 774, L8	7.9	37
199	PROBING THE NATURE OF THE HELIOSHEATH WITH THE NEUTRAL ATOM SPECTRA MEASURED BY IBEX IN THE VOYAGER 1 DIRECTION. <i>Astrophysical Journal Letters</i> , 2013 , 776, L32	7.9	15
198	Energy partition in magnetic reconnection in Earth's magnetotail. <i>Physical Review Letters</i> , 2013 , 110, 225001	7.4	65
197	The dependence of magnetic reconnection on plasma β and magnetic shear: Evidence from magnetopause observations. <i>Geophysical Research Letters</i> , 2013 , 40, 11-16	4.9	86
196	ON THE ROTATION OF THE MAGNETIC FIELD ACROSS THE HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2013 , 778, L26	7.9	34
195	On phase diagrams of magnetic reconnection. <i>Physics of Plasmas</i> , 2013 , 20, 061207	2.1	25
194	The adiabatic phase mixing and heating of electrons in Buneman turbulence. <i>Physics of Plasmas</i> , 2013 , 20, 061205	2.1	16

193	Influence of asymmetries and guide fields on the magnetic reconnection diffusion region in collisionless space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 124001	2	36
192	CORONAL ELECTRON CONFINEMENT BY DOUBLE LAYERS. <i>Astrophysical Journal</i> , 2013 , 778, 144	4.7	12
191	MAGNETIC FLUX CONSERVATION IN THE HELIOSHEATH. <i>Astrophysical Journal Letters</i> , 2013 , 762, L14	7.9	23
190	THE POWER-LAW SPECTRA OF ENERGETIC PARTICLES DURING MULTI-ISLAND MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2013 , 763, L5	7.9	104
189	ON THE CAUSE OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES. <i>Astrophysical Journal Letters</i> , 2013 , 775, L14	7.9	23
188	THE ROLE OF PRESSURE ANISOTROPY ON PARTICLE ACCELERATION DURING MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2013 , 764, 126	4.7	15
187	Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear. <i>Geophysical Research Letters</i> , 2013 , 40, 4475-4480	4.9	86
186	Current Fragmentation and Particle Acceleration in Solar Flares. <i>Space Science Reviews</i> , 2012 , 173, 223-245	4.5	50
185	Ion Heating and Acceleration During Magnetic Reconnection Relevant to the Corona. <i>Space Science Reviews</i> , 2012 , 172, 227-240	7.5	27
184	The Acceleration Mechanism of Anomalous Cosmic Rays. <i>Space Science Reviews</i> , 2012 , 173, 283-307	7.5	27
183	Test of Shi et al. method to infer the magnetic reconnection geometry from spacecraft data: MHD simulation with guide field and antiparallel kinetic simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
182	The structure of the magnetic reconnection exhaust boundary. <i>Physics of Plasmas</i> , 2012 , 19, 022110	2.1	61
181	NEAR THE BOUNDARY OF THE HELIOSPHERE: A FLOW TRANSITION REGION. <i>Astrophysical Journal</i> , 2012 , 751, 80	4.7	23
180	SUPPRESSION OF ENERGETIC ELECTRON TRANSPORT IN FLARES BY DOUBLE LAYERS. <i>Astrophysical Journal</i> , 2012 , 757, 20	4.7	21
179	Secondary magnetic islands generated by the Kelvin-Helmholtz instability in a reconnecting current sheet. <i>Physical Review Letters</i> , 2012 , 108, 255005	7.4	49
178	SCALING OF THE GROWTH RATE OF MAGNETIC ISLANDS IN THE HELIOSHEATH. <i>Astrophysical Journal Letters</i> , 2012 , 750, L30	7.9	7
177	Comparison of a statistical model for magnetic islands in large current layers with Hall MHD simulations and Cluster FTE observations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		35
176	A current filamentation mechanism for breaking magnetic field lines during reconnection. <i>Nature</i> , 2011 , 474, 184-7	50.4	117

175	The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. I. Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2011 , 18, 062110	2.1	24
174	THE ACCELERATION OF IONS IN SOLAR FLARES DURING MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2011 , 743, L35	7.9	43
173	IS THE MAGNETIC FIELD IN THE HELIOSHEATH LAMINAR OR A TURBULENT SEA OF BUBBLES?. <i>Astrophysical Journal</i> , 2011 , 734, 71	4.7	66
172	THE EFFECTS OF PLASMA BETA AND ANISOTROPY INSTABILITIES ON THE DYNAMICS OF RECONNECTING MAGNETIC FIELDS IN THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2011 , 743, 70	4.7	36
171	The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. II. Theory. <i>Physics of Plasmas</i> , 2011 , 18, 092102	2.1	23
170	Super-Alfvénic propagation of substorm reconnection signatures and Poynting flux. <i>Physical Review Letters</i> , 2011 , 107, 065001	7.4	57
169	Publisher's Note: Super-Alfvénic Propagation of Substorm Reconnection Signatures and Poynting Flux [Phys. Rev. Lett. 107, 065001 (2011)]. <i>Physical Review Letters</i> , 2011 , 107,	7.4	2
168	Wave associated anomalous drag during magnetic field reconnection. <i>Physics of Plasmas</i> , 2011 , 18, 102902	2.1	25
167	Three-dimensional simulations of the orientation and structure of reconnection X-lines. <i>Physics of Plasmas</i> , 2010 , 17, 110704	2.1	20
166	A saddle-node bifurcation model of magnetic reconnection onset. <i>Physics of Plasmas</i> , 2010 , 17, 062105	2.1	20
165	A statistical model of magnetic islands in a current layer. <i>Physics of Plasmas</i> , 2010 , 17, 010702	2.1	69
164	Equations of state in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2010 , 17, 055703	2.1	31
163	Magnitude of the Hall fields during magnetic reconnection. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	42
162	Electron holes and heating in the reconnection dissipation region. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	56
161	Test of methods to infer the magnetic reconnection geometry from spacecraft data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		19
160	A MAGNETIC RECONNECTION MECHANISM FOR THE GENERATION OF ANOMALOUS COSMIC RAYS. <i>Astrophysical Journal</i> , 2010 , 709, 963-974	4.7	207
159	THE DEPENDENCE OF MAGNETIC RECONNECTION ON PLASMA β AND MAGNETIC SHEAR: EVIDENCE FROM SOLAR WIND OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2010 , 719, L199-L203	7.9	113
158	THE VECTOR DIRECTION OF THE INTERSTELLAR MAGNETIC FIELD OUTSIDE THE HELIOSPHERE. <i>Astrophysical Journal</i> , 2010 , 710, 1769-1775	4.7	118

157	The Weibel instability inside the electron-positron Harris sheet. <i>Physics of Plasmas</i> , 2009 , 16, 042101	2.1	9
156	Formation of a localized acceleration potential during magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2009 , 16, 050701	2.1	48
155	Nonlinear development of streaming instabilities in strongly magnetized plasma. <i>Physical Review Letters</i> , 2009 , 102, 145004	7.4	44
154	Scaling of SweetBarker reconnection with secondary islands. <i>Physics of Plasmas</i> , 2009 , 16, 120702	2.1	98
153	The hall effect in magnetic reconnection: Hybrid versus Hall-less hybrid simulations. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	23
152	Ion heating resulting from pickup in magnetic reconnection exhausts. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		135
151	A MAGNETIC RECONNECTION MECHANISM FOR ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMPULSIVE FLARES. <i>Astrophysical Journal</i> , 2009 , 700, L16-L20	4.7	131
150	ENERGETIC PROTONS, RADIONUCLIDES, AND MAGNETIC ACTIVITY IN PROTOSTELLAR DISKS. <i>Astrophysical Journal</i> , 2009 , 703, 2152-2159	4.7	57
149	THE IMPACT OF MICROSCOPIC MAGNETIC RECONNECTION ON PRE-FLARE ENERGY STORAGE. <i>Astrophysical Journal</i> , 2009 , 707, L158-L162	4.7	29
148	Evidence for collisionless magnetic reconnection at Mars. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	77
147	The existence and properties of the distant magnetotail during 32 hours of strongly northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		7
146	Evidence and theory for trapped electrons in guide field magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		111
145	The Hall fields and fast magnetic reconnection. <i>Physics of Plasmas</i> , 2008 , 15, 042306	2.1	153
144	Development of a Turbulent Outflow During Electron-Positron Magnetic Reconnection. <i>Astrophysical Journal</i> , 2008 , 680, 999-1008	4.7	34
143	Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	33
142	Orientation of the reconnection X-line. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	72
141	Equation Free Projective Integration: A multiscale method applied to a plasma ion acoustic wave. <i>Journal of Computational Physics</i> , 2007 , 226, 571-585	4.1	21
140	Catastrophic onset of fast magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2007 , 14, 054502.1		41

139	Evidence for an elongated (>60 ion skin depths) electron diffusion region during fast magnetic reconnection. <i>Physical Review Letters</i> , 2007 , 99, 255002	7.4	133
138	Two-scale structure of the electron dissipation region during collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2007 , 99, 155002	7.4	240
137	Onset of fast magnetic reconnection. <i>Physical Review Letters</i> , 2007 , 98, 215001	7.4	67
136	Formation of secondary islands during magnetic reconnection. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	202
135	A Model for Spontaneous Onset of Fast Magnetic Reconnection. <i>Astrophysical Journal</i> , 2006 , 644, L145-L148	4.4	69
134	Electron acceleration from contracting magnetic islands during reconnection. <i>Nature</i> , 2006 , 443, 553-6	50.4	682
133	Cluster observations of electron holes in association with magnetotail reconnection and comparison to simulations. <i>Journal of Geophysical Research</i> , 2005 , 110,		216
132	Transition from antiparallel to component magnetic reconnection. <i>Journal of Geophysical Research</i> , 2005 , 110,		70
131	Production of energetic electrons during magnetic reconnection. <i>Physical Review Letters</i> , 2005 , 94, 095004	9.1	175
130	Catastrophe model for fast magnetic reconnection onset. <i>Physical Review Letters</i> , 2005 , 95, 235002	7.4	140
129	The scaling of embedded collisionless reconnection. <i>Physics of Plasmas</i> , 2004 , 11, 2199-2213	2.1	123
128	Singular structure of magnetic islands resulting from reconnection. <i>Physics of Plasmas</i> , 2004 , 11, 5668-5672	7.2	9
127	A model of the bifurcated current sheet: 2. Flapping motions. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	28
126	Inherently three dimensional magnetic reconnection: A mechanism for bursty bulk flows?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	76
125	Signatures of collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2003 , 108,		56
124	Formation of electron holes and particle energization during magnetic reconnection. <i>Science</i> , 2003 , 299, 873-7	33.3	335
123	Impact of frustrated singularities on magnetic island evolution. <i>Physical Review Letters</i> , 2003 , 91, 125002	7.4	20
122	Three-dimensional particle simulations of collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 6-1		200

121	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001 , 106, 3715-3719		970
120	Alfvénic collisionless magnetic reconnection and the Hall term. <i>Journal of Geophysical Research</i> , 2001 , 106, 3759-3772		361
119	Role of dispersive waves in collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2001 , 87, 19500-4	4.4	210
118	Magnetic reconnection in toroidal eta(i) mode turbulence. <i>Physical Review Letters</i> , 2000 , 84, 99-102	7.4	30
117	Liquid metal flow encasing a magnetic cavity. <i>Physics of Plasmas</i> , 2000 , 7, 1081-1084	2.1	2
116	The onset of turbulence in collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 2000 , 27, 3157-3160	4.9	29
115	Diamagnetic stabilization of ideal ballooning modes in the edge pedestal. <i>Physics of Plasmas</i> , 1999 , 6, 2797-2801	2.1	62
114	Electron magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 1999 , 6, 751-758	2.1	183
113	Whistler turbulence at the magnetopause: 1. Reduced equations and linear theory. <i>Journal of Geophysical Research</i> , 1999 , 104, 6919-6928		13
112	The scaling of collisionless, magnetic reconnection for large systems. <i>Geophysical Research Letters</i> , 1999 , 26, 2163-2166	4.9	217
111	Tokamak edge turbulence and the L-H transition. <i>European Physical Journal D</i> , 1998 , 48, 50-50		
110	The role of electron dissipation on the rate of collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 1998 , 25, 3759-3762	4.9	180
109	Phase Space of Tokamak Edge Turbulence, the L-H Transition, and the Formation of the Edge Pedestal. <i>Physical Review Letters</i> , 1998 , 81, 4396-4399	7.4	211
108	Structure of the dissipation region during collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 1998 , 103, 9165-9176		301
107	Local variables affecting H-mode threshold on Alcator C-Mod. <i>Plasma Physics and Controlled Fusion</i> , 1998 , 40, 689-692	2	71
106	Transition from resistive ballooning to \bar{n} -driven turbulence in tokamaks. <i>Physics of Plasmas</i> , 1998 , 5, 2654-2663	4.6	46
105	Enhancement of Turbulence in Tokamaks by Magnetic Fluctuations. <i>Physical Review Letters</i> , 1997 , 79, 229-232	7.4	75
104	Three-dimensional simulations of the parallel velocity shear instability. <i>Physics of Plasmas</i> , 1997 , 4, 300-309	3.9	26

103	Electron temperature fluctuations in drift-resistive ballooning turbulence. <i>Physics of Plasmas</i> , 1997 , 4, 991-1001	2.1	17
102	Nonlinear reduced Braginskii equations with ion thermal dynamics in toroidal plasma. <i>Physics of Plasmas</i> , 1997 , 4, 2134-2138	2.1	183
101	Breakup of the electron current layer during 3-D collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 1997 , 24, 2921-2924	4.9	94
100	Two-fluid theory of collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1997 , 4, 1002-1009	2.1	181
99	The relationship between ELF-VHF waves and magnetic shear at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1996 , 23, 773-776	4.9	16
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