List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fast reconnection in high-Lundquist-number plasmas due to the plasmoid Instability. Physics of Plasmas, 2009, 16, 112102.	0.7	457
2	Observation of energetic electrons within magnetic islands. Nature Physics, 2008, 4, 19-23.	6.5	238
3	Mach Cones in a Coulomb Lattice and a Dusty Plasma. Physical Review Letters, 1999, 83, 3649-3652.	2.9	215
4	Interaction of Shear-Alfven Wave Packets: Implication for Weak Magnetohydrodynamic Turbulence in Astrophysical Plasmas. Astrophysical Journal, 1996, 465, 845.	1.6	215
5	Longitudinal and Transverse Waves in Yukawa Crystals. Physical Review Letters, 2001, 86, 2569-2572.	2.9	176
6	Filamentation Instability of Counterstreaming Laser-Driven Plasmas. Physical Review Letters, 2013, 111, 225002.	2.9	158
7	Impulsive Magnetic Reconnection in the Earth's Magnetotail and the Solar Corona. Annual Review of Astronomy and Astrophysics, 2004, 42, 365-384.	8.1	151
8	Self-Consistent Dynamolike Activity in Turbulent Plasmas. Physical Review Letters, 1986, 57, 206-209.	2.9	123
9	Fast impulsive reconnection and current sheet intensification due to electron pressure gradients in semi-collisional plasmas. Geophysical Research Letters, 1996, 23, 1673-1676.	1.5	121
10	General theory of the plasmoid instability. Physics of Plasmas, 2016, 23, .	0.7	113
11	Local magnetohydrodynamic instabilities of cylindrical plasma with sheared equilibrium flows. Physics of Fluids, 1987, 30, 2167.	1.4	108
12	Anisotropic weak whistler wave turbulence in electron magnetohydrodynamics. Physics of Plasmas, 2003, 10, 3065-3076.	0.7	101
13	Scaling of anisotropic spectra due to the weak interaction of shear-Alfvén wave packets. Physics of Plasmas, 1997, 4, 605-610.	0.7	99
14	Scaling of Collisionless Forced Reconnection. Physical Review Letters, 2001, 87, 265003.	2.9	98
15	Collisionless Reconnection in an Electron-Positron Plasma. Physical Review Letters, 2005, 95, 245001.	2.9	97
16	Magnetic Reconnection between Colliding Magnetized Laser-Produced Plasma Plumes. Physical Review Letters, 2014, 113, 105003.	2.9	97
17	TURBULENT MAGNETOHYDRODYNAMIC RECONNECTION MEDIATED BY THE PLASMOID INSTABILITY. Astrophysical Journal, 2016, 818, 20.	1.6	94
18	Nonlinear dynamics of them=1 instability and fast sawtooth collapse in high-temperature plasmas. Physical Review Letters, 1993, 70, 1627-1630.	2.9	92

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#	Article	IF	CITATIONS
19	Weakly Compressible Magnetohydrodynamic Turbulence in the Solar Wind and the Interstellar Medium. Astrophysical Journal, 1998, 494, 409-418.	1.6	86
20	Self-Consistency Constraints on the Dynamo Mechanism. Astrophysical Journal, 1995, 449, 739.	1.6	84
21	Ballooning instability of a thin current sheet in the high-Lundquist-number magnetotail. Geophysical Research Letters, 1998, 25, 861-864.	1.5	79
22	Fast Magnetic Reconnection in Laser-Produced Plasma Bubbles. Physical Review Letters, 2011, 106, 215003.	2.9	79
23	The Plasma Simulation Code: A modern particle-in-cell code with patch-based load-balancing. Journal of Computational Physics, 2016, 318, 305-326.	1.9	77
24	FAST MAGNETIC RECONNECTION AND PARTICLE ACCELERATION IN RELATIVISTIC LOW-DENSITY ELECTRON-POSITRON PLASMAS WITHOUT GUIDE FIELD. Astrophysical Journal, 2012, 750, 129.	1.6	75
25	Onset of fast reconnection in Hall magnetohydrodynamics mediated by the plasmoid instability. Physics of Plasmas, 2011, 18, .	0.7	74
26	<i>IRIS</i> Si iv LINE PROFILES: AN INDICATION FOR THE PLASMOID INSTABILITY DURING SMALL-SCALE MAGNETIC RECONNECTION ON THE SUN. Astrophysical Journal, 2015, 813, 86.	1.6	72
27	Forced reconnection and current sheet formation in Taylor's model. Physics of Fluids B, 1992, 4, 1795-1799.	1.7	71
28	Distribution of Plasmoids in High-Lundquist-Number Magnetic Reconnection. Physical Review Letters, 2012, 109, 265002.	2.9	69
29	Plasmoid Instability in Evolving Current Sheets and Onset of Fast Reconnection. Astrophysical Journal, 2017, 849, 75.	1.6	66
30	Generation and Evolution of High-Mach-Number Laser-Driven Magnetized Collisionless Shocks in the Laboratory. Physical Review Letters, 2017, 119, 025001.	2.9	66
31	Magnetic reconnection driven by the coalescence instability. Physics of Fluids, 1983, 26, 3332.	1.4	65
32	Linear plasmoid instability of thin current sheets with shear flow. Physics of Plasmas, 2010, 17, .	0.7	65
33	Hydrodynamic waves and correlation functions in dusty plasmas. Physics of Plasmas, 1997, 4, 3759-3764.	0.7	64
34	The Dehydration of Water Worlds via Atmospheric Losses. Astrophysical Journal Letters, 2017, 847, L4.	3.0	64
35	Ionization instabilities and resonant acoustic modes. Physics of Plasmas, 2001, 8, 5018-5024.	0.7	63
36	Current singularities: Drivers of impulsive reconnection. Physics of Plasmas, 2005, 12, 042305.	0.7	62

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37	Nonequilibrium and current sheet formation in line-tied magnetic fields. Physics of Plasmas, 1998, 5, 4028-4040.	0.7	60
38	Comparison of multi-fluid moment models with particle-in-cell simulations of collisionless magnetic reconnection. Physics of Plasmas, 2015, 22, .	0.7	60
39	Observation of temperature-dependent transport in the TFTR tokamak. Physical Review Letters, 1991, 66, 421-424.	2.9	58
40	Anisotropic fluid turbulence in the interstellar medium and solar wind. Physics of Plasmas, 2003, 10, 1954-1962.	0.7	58
41	Plasmoid Instability in Forming Current Sheets. Astrophysical Journal, 2017, 850, 142.	1.6	58
42	Role of the Plasmoid Instability in Magnetohydrodynamic Turbulence. Physical Review Letters, 2018, 121, 165101.	2.9	58
43	Evolution of a Dust Void in a Radio-Frequency Plasma Sheath. Physical Review Letters, 2002, 89, 125001.	2.9	57
44	Recent developments in collisionless reconnection theory: Applications to laboratory and space plasmas. Physics of Plasmas, 2001, 8, 1829-1839.	0.7	56
45	Energy Principle with Global Invariants for Toroidal Plasmas. Physical Review Letters, 1980, 45, 347-350.	2.9	55
46	Random Scattering and Anisotropic Turbulence of Shear Alfvén Wave Packets. Astrophysical Journal, 2001, 548, 318-322.	1.6	55
47	Kolmogorov versus Iroshnikovâ€Kraichnan spectra: Consequences for ion heating in the solar wind. Journal of Geophysical Research, 2010, 115, .	3.3	55
48	On the value of the reconnection rate. Journal of Plasma Physics, 2016, 82, .	0.7	55
49	Magnetic island formation in threeâ€dimensional plasma equilibria. Physics of Fluids B, 1989, 1, 392-397.	1.7	54
50	Kinetic Eigenmodes and Discrete Spectrum of Plasma Oscillations in a Weakly Collisional Plasma. Physical Review Letters, 1999, 83, 1974-1977.	2.9	54
51	Fast magnetic reconnection and sudden enhancement of current sheets due to inward boundary flows. Physics of Plasmas, 1996, 3, 2129-2134.	0.7	53
52	Exascale applications: skin in the game. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190056.	1.6	53
53	Magnetic reconnection in high-energy-density laser-produced plasmas. Physics of Plasmas, 2012, 19, .	0.7	51
54	Turbulent magnetic diffusion and magnetic field reversal. Physics of Fluids, 1987, 30, 1743.	1.4	49

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55	Sudden enhancement and partial disruption of thin current sheets in the magnetotail due to Hall MHD effects. Geophysical Research Letters, 1998, 25, 3277-3280.	1.5	48
56	Reduced magnetohydrodynamic theory of oblique plasmoid instabilities. Physics of Plasmas, 2012, 19, .	0.7	48
57	Theory of pressureâ€induced islands and selfâ€healing in threeâ€dimensional toroidal magnetohydrodynamic equilibria. Physics of Plasmas, 1995, 2, 883-888.	0.7	47
58	Entropy production and plasma relaxation. Physical Review A, 1987, 35, 768-777.	1.0	46
59	THEORY OF INCOMPRESSIBLE MAGNETOHYDRODYNAMIC TURBULENCE WITH SCALE-DEPENDENT ALIGNMENT AND CROSS-HELICITY. Astrophysical Journal, 2010, 718, 1151-1157.	1.6	45
60	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	1.6	45
61	Role of Kinetic Instability in Runaway-Electron Avalanches and Elevated Critical Electric Fields. Physical Review Letters, 2018, 120, 265001.	2.9	45
62	Debye Shielding and Particle Correlations in Strongly Coupled Dusty Plasmas. Physical Review Letters, 1997, 78, 1468-1471.	2.9	44
63	Global Tenâ€Moment Multifluid Simulations of the Solar Wind Interaction with Mercury: From the Planetary Conducting Core to the Dynamic Magnetosphere. Geophysical Research Letters, 2019, 46, 11584-11596.	1.5	44
64	On a kinetic theory for strongly coupled dusty plasmas. Physics of Plasmas, 1996, 3, 1189-1191.	0.7	43
65	Weakly collisional Landau damping and three-dimensional Bernstein-Greene-Kruskal modes: New results on old problems. Physics of Plasmas, 2006, 13, 055903.	0.7	43
66	Bernstein-Greene-Kruskal Modes in a Three-Dimensional Plasma. Physical Review Letters, 2005, 95, 245004.	2.9	41
67	DISTRIBUTION OF PLASMOIDS IN POST-CORONAL MASS EJECTION CURRENT SHEETS. Astrophysical Journal Letters, 2013, 771, L14.	3.0	41
68	Statistical characterization of periodic, area-preserving mappings. Physical Review A, 1981, 23, 2744-2746.	1.0	38
69	Hall magnetohydrodynamic reconnection in the plasmoid unstable regime. Physics of Plasmas, 2011, 18,	0.7	38
70	OBSERVATIONS OF SUPRA-ARCADE FANS: INSTABILITIES AT THE HEAD OF RECONNECTION JETS. Astrophysical Journal, 2014, 796, 27.	1.6	38
71	Forced reconnection and mode locking in rotating cylindrical plasmas. Physics of Plasmas, 1997, 4, 748-754.	0.7	37
72	Variational integration for ideal magnetohydrodynamics with built-in advection equations. Physics of Plasmas, 2014, 21, .	0.7	37

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73	Existence of three-dimensional ideal-magnetohydrodynamic equilibria with current sheets. Physics of Plasmas, 2015, 22, .	0.7	37
74	Nonlinear dynamics of the m=1 kinkâ€ŧearing instability in a modified magnetohydrodynamic model. Physics of Plasmas, 1995, 2, 171-181.	0.7	36
75	Electron Physics in 3â€Ð Twoâ€Fluid 10â€Moment Modeling of Ganymede's Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 2815-2830.	0.8	36
76	RAYLEIGH-TAYLOR TYPE INSTABILITIES IN THE RECONNECTION EXHAUST JET AS A MECHANISM FOR SUPRA-ARCADE DOWNFLOWS IN THE SUN. Astrophysical Journal Letters, 2014, 796, L29.	3.0	35
77	The island coalescence problem: Scaling of reconnection in extended fluid models including higher-order moments. Physics of Plasmas, 2015, 22, .	0.7	35
78	Drift waves in a straight stellarator. Physics of Fluids, 1983, 26, 880.	1.4	34
79	Generation of Large-Scale Magnetic Fields by Small-Scale Dynamo in Shear Flows. Physical Review Letters, 2015, 115, 175003.	2.9	34
80	Role of Ion Kinetic Physics in the Interaction of Magnetic Flux Ropes. Physical Review Letters, 2015, 115, 175004.	2.9	33
81	Direct Observations of Particle Dynamics in Magnetized Collisionless Shock Precursors in Laser-Produced Plasmas. Physical Review Letters, 2019, 122, 245001.	2.9	33
82	Suppression of the tearing mode by energetic ions. Physical Review Letters, 1989, 63, 2056-2059.	2.9	32
83	Growth, sudden enhancement, and relaxation of current sheets in the magnetotail: Two-dimensional substorm dynamics. Geophysical Research Letters, 1995, 22, 2985-2988.	1.5	32
84	Dynamics of thin current sheets and their disruption by ballooning instabilities: A mechanism for magnetospheric substorms. Physics of Plasmas, 1998, 5, 2001-2009.	0.7	32
85	Instability of the current sheet in the Earth's magnetotail with normal magnetic field. Physics of Plasmas, 2014, 21, .	0.7	32
86	Relativistic-electron-driven magnetic reconnection in the laboratory. Physical Review E, 2018, 98, .	0.8	32
87	A unified model of acoustic and lattice waves in a one-dimensional strongly coupled dusty plasma. Physics of Plasmas, 1999, 6, 409-412.	0.7	31
88	Structure and dynamics of current sheets at Alfvén resonances in a differentially rotating plasma. Physics of Plasmas, 1998, 5, 2291-2296.	0.7	30
89	Nonmodal Growth of the Magnetorotational Instability. Physical Review Letters, 2014, 113, 025006.	2.9	30
90	Necessary and sufficient conditions for quasisymmetry. Physics of Plasmas, 2020, 27, .	0.7	30

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91	Forced magnetic reconnection and the persistence of current sheets in static and rotating plasmas due to a sinusoidal boundary perturbation. Physics of Plasmas, 1996, 3, 2427-2433.	0.7	29
92	Statistical Simulation of the Magnetorotational Dynamo. Physical Review Letters, 2015, 114, 085002.	2.9	29
93	Variational method for three-dimensional toroidal equilibria. Computer Physics Communications, 1984, 31, 213-225.	3.0	28
94	Magnetic Reconnection in Plasma under Inertial Confinement Fusion Conditions Driven by Heat Flux Effects in Ohm's Law. Physical Review Letters, 2014, 112, 105004.	2.9	28
95	Helicity-Flux-Driven <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>α</mml:mi></mml:math> Effect in Laboratory and Astrophysical Plasmas. Physical Review Letters, 2014, 112, 125003.	2.9	27
96	Optical guiding in a Raman free-electron laser. IEEE Journal of Quantum Electronics, 1987, 23, 1651-1656.	1.0	26
97	Wind observations pertaining to current disruption and ballooning instability during substorms. Geophysical Research Letters, 2003, 30, .	1.5	26
98	Complete Spectrum of Kinetic Eigenmodes for Plasma Oscillations in a Weakly Collisional Plasma. Physical Review Letters, 2004, 92, 065002.	2.9	26
99	HIGH-LUNDQUIST NUMBER SCALING IN THREE-DIMENSIONAL SIMULATIONS OF PARKER'S MODEL OF CORONAL HEATING. Astrophysical Journal, 2012, 747, 109.	1.6	26
100	Kinetic simulation of magnetic field generation and collisionless shock formation in expanding laboratory plasmas. Physics of Plasmas, 2018, 25, .	0.7	26
101	Cross-verification of the global gyrokinetic codes GENE and XGC. Physics of Plasmas, 2018, 25, 062308.	0.7	26
102	Variational formulation of relaxed and multi-region relaxed magnetohydrodynamics. Journal of Plasma Physics, 2015, 81, .	0.7	25
103	Simulations of anti-parallel reconnection using a nonlocal heat flux closure. Physics of Plasmas, 2017, 24, .	0.7	25
104	Molecular dynamics simulations of Mach cones in two-dimensional Yukawa crystals. Physics of Plasmas, 2002, 9, 3349-3354.	0.7	24
105	Ballooning stability of axisymmetric plasmas with sheared equilibrium flows. Physics of Fluids B, 1989, 1, 2207-2212.	1.7	23
106	Ginzburg-Landau equation: A nonlinear model for the radiation field of a free-electron laser. Physical Review A, 1991, 43, 6934-6938.	1.0	23
107	Dynamics of current sheet formation and reconnection in twoâ€dimensional coronal loops. Physics of Plasmas, 1995, 2, 3184-3193.	0.7	23
108	In-plane electric fields in magnetic islands during collisionless magnetic reconnection. Physics of Plasmas, 2012, 19, 112902.	0.7	23

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109	High-Mach number, laser-driven magnetized collisionless shocks. Physics of Plasmas, 2017, 24, .	0.7	23
110	Linear theory of superradiance in a free-electron laser. Physical Review A, 1990, 42, 4120-4126.	1.0	22
111	MAGNETOROTATIONAL INSTABILITY: NONMODAL GROWTH AND THE RELATIONSHIP OF GLOBAL MODES TO THE SHEARING BOX. Astrophysical Journal, 2014, 797, 67.	1.6	22
112	A model for falling-tone chorus. Geophysical Research Letters, 2014, 41, 1838-1845.	1.5	22
113	Finite-time vortex singularity in a model of three-dimensional Euler flows. Physical Review Letters, 1992, 69, 2196-2199.	2.9	21
114	Suppression ofm=2 islands by electron cyclotron heating in the Texas Experimental Tokamak: Experiment and theory. Physics of Fluids B, 1993, 5, 3239-3245.	1.7	21
115	Hall magnetohydrodynamic ballooning instability in the magnetotail. Physics of Plasmas, 2003, 10, 249-258.	0.7	21
116	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	1.6	21
117	Transverse electrostatic modes in a one-dimensional strongly coupled dusty plasma. Physics of Plasmas, 1999, 6, 4388-4391.	0.7	20
118	The role of guide field in magnetic reconnection driven by island coalescence. Physics of Plasmas, 2017, 24, .	0.7	20
119	Formation of current singularity in a topologically constrained plasma. Physical Review E, 2016, 93, 023205.	0.8	18
120	Astrophysical particle acceleration mechanisms in colliding magnetized laser-produced plasmas. Physics of Plasmas, 2017, 24, 092901.	0.7	18
121	Solving the problem of overdetermination of quasisymmetric equilibrium solutions by near-axis expansions. I. Generalized force balance. Physics of Plasmas, 2021, 28, .	0.7	18
122	Current sheet formation and rapid reconnection in the solar corona. Astrophysical Journal, 1991, 372, 321.	1.6	18
123	DO POTENTIAL FIELDS DEVELOP CURRENT SHEETS UNDER SIMPLE COMPRESSION OR EXPANSION?. Astrophysical Journal, 2009, 699, L144-L147.	1.6	18
124	Neutron emission profiles in the beam-heated Princeton large tokamak. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 66, 295-298.	0.9	17
125	Geometric angles in cyclic evolutions of a classical system. Physical Review A, 1988, 38, 4389-4394.	1.0	17
126	Theory and observation of optical guiding in a free-electron laser. Physical Review A, 1989, 40, 5081-5091.	1.0	17

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127	Optimum theory for the energy dissipation in a turbulent pinch. Physics of Fluids B, 1991, 3, 3462-3476.	1.7	17
128	COHERENT NONHELICAL SHEAR DYNAMOS DRIVEN BY MAGNETIC FLUCTUATIONS AT LOW REYNOLDS NUMBERS. Astrophysical Journal, 2015, 813, 52.	1.6	17
129	A tight-coupling scheme sharing minimum information across a spatial interface between gyrokinetic turbulence codes. Physics of Plasmas, 2018, 25, 072308.	0.7	17
130	Observations of optical guiding in a Raman free-electron laser. Physical Review Letters, 1988, 60, 1254-1257.	2.9	16
131	Finite-time vortex singularity and Kolmogorov spectrum in a symmetric three-dimensional spiral model. Physical Review E, 1995, 52, 5110-5123.	0.8	16
132	Tearing stability of the twoâ€dimensional magnetotail. Physics of Plasmas, 1995, 2, 3857-3864.	0.7	16
133	Electrostatic degrees of freedom in non-Maxwellian plasma. Physics of Plasmas, 2002, 9, 1931-1937.	0.7	16
134	Effects of line-tying on magnetohydrodynamic instabilities and current sheet formation. Physics of Plasmas, 2010, 17, .	0.7	16
135	Plasmoid solutions of the Hahm–Kulsrud–Taylor equilibrium model. Physics of Plasmas, 2013, 20, .	0.7	16
136	RAPID CHANGE OF FIELD LINE CONNECTIVITY AND RECONNECTION IN STOCHASTIC MAGNETIC FIELDS. Astrophysical Journal, 2014, 793, 106.	1.6	16
137	Electromotive force due to magnetohydrodynamic fluctuations in sheared rotating turbulence. Physical Review E, 2015, 92, 053101.	0.8	16
138	Four-field model for dispersive field-line resonances: Effects of coupling between shear-Alfvén and slow modes. Geophysical Research Letters, 1999, 26, 3281-3284.	1.5	15
139	The electrostatic sheath in a dusty plasma. Physics of Plasmas, 2000, 7, 3093-3096.	0.7	15
140	The magnetic shear-current effect: generation ofÂlarge-scale magnetic fields by the small-scaleÂdynamo. Journal of Plasma Physics, 2016, 82, .	0.7	15
141	Relaxation of toroidal plasmas. Physics of Fluids, 1986, 29, 242.	1.4	14
142	Upper bounds on fluctuational power absorption in a turbulent pinch. Physics of Fluids B, 1991, 3, 715-720.	1.7	14
143	Ginzburg-Landau Model and Single-Mode Operation of a Free-Electron Laser Oscillator. Physical Review Letters, 1999, 82, 2665-2668.	2.9	14
144	An improved ten-moment closure for reconnection and instabilities. Physics of Plasmas, 2020, 27, .	0.7	14

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145	Fast magnetic reconnection in low-density electron-positron plasmas. Physics of Plasmas, 2010, 17, .	0.7	13
146	Nonlinear saturation of kinetic ballooning modes by zonal fields in toroidal plasmas. Physics of Plasmas, 2019, 26, 010701.	0.7	13
147	Drift Instabilities in Thin Current Sheets Using a Twoâ€Fluid Model With Pressure Tensor Effects. Journal of Geophysical Research: Space Physics, 2019, 124, 3331-3346.	0.8	13
148	Solving the problem of overdetermination of quasisymmetric equilibrium solutions by near-axis expansions. II. Circular axis stellarator solutions. Physics of Plasmas, 2021, 28, 012509.	0.7	13
149	Current sheets and reconnection driven by footpoint motion in two-dimensional coronal loops with X-type neutral lines7. Astrophysical Journal, 1994, 420, 415.	1.6	13
150	Energy principle with global invariants: Applications. Physics of Fluids, 1983, 26, 526.	1.4	12
151	On Arnol'd diffusion in a perturbed magnetic dipole field. Geophysical Research Letters, 1992, 19, 941-944.	1.5	12
152	Low-frequency modes in two-dimensional Debye-Yukawa plasma crystals. Thin Solid Films, 2001, 390, 228-233.	0.8	12
153	Electron acceleration by parallel and perpendicular electric fields during magnetic reconnection without guide field. Journal of Geophysical Research: Space Physics, 2015, 120, 9355-9367.	0.8	12
154	HALL CURRENT EFFECTS IN MEAN-FIELD DYNAMO THEORY. Astrophysical Journal, 2016, 829, 51.	1.6	12
155	Modelling of NSTX hot vertical displacement events using M3D-C1. Physics of Plasmas, 2018, 25, 056106.	0.7	12
156	Biermann-Battery-Mediated Magnetic Reconnection in 3D Colliding Plasmas. Physical Review Letters, 2018, 121, 095001.	2.9	12
157	Kinetic simulations of piston-driven collisionless shock formation in magnetized laboratory plasmas. Physics of Plasmas, 2020, 27, .	0.7	12
158	Spatial coupling of gyrokinetic simulations, a generalized scheme based on first-principles. Physics of Plasmas, 2021, 28, .	0.7	12
159	Start-up from noise and high-gain regime of the free electron laser: A hamiltonian formulation. Optics Communications, 1986, 58, 201-205.	1.0	11
160	Effects of optical guiding on sideband instabilities in a free-electron laser. Physical Review A, 1989, 40, 3127-3135.	1.0	11
161	Equilibrium beta limits in Heliotronâ€E due to magnetic island overlap. Physics of Fluids B, 1990, 2, 2528-2530.	1.7	11
162	Geometric phase, rotational transforms, and adiabatic invariants in toroidal magnetic fields. Physics of Fluids B, 1992, 4, 2737-2739.	1.7	11

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163	Lower hybrid waves generated in the wake of the Galileo spacecraft. Planetary and Space Science, 1997, 45, 201-219.	0.9	11
164	Pair correlations in strongly coupled dusty plasmas. Physical Review E, 1998, 58, 4967-4972.	0.8	11
165	Sudden disruption of a thin current sheet in collisionless Hall magnetohydrodynamics due to secondary tearing and coalescence instabilities. Geophysical Research Letters, 1999, 26, 3337-3340.	1.5	11
166	Extension of the electron dissipation region in collisionless Hall magnetohydrodynamics reconnection. Physics of Plasmas, 2009, 16, 102111.	0.7	11
167	Physics of forced magnetic reconnection in coaxial helicity injection experiments in National Spherical Torus Experiment. Physics of Plasmas, 2014, 21, .	0.7	11
168	The effects of kinetic instabilities on the electron cyclotron emission from runaway electrons. Nuclear Fusion, 2018, 58, 096030.	1.6	11
169	Using the maximum entropy distribution to describe electrons in reconnecting current sheets. Physics of Plasmas, 2018, 25, .	0.7	11
170	Small-scale Dynamo in Stably Stratified Turbulence. Astrophysical Journal, 2021, 906, 61.	1.6	11
171	Measures of quasisymmetry for stellarators. Journal of Plasma Physics, 2022, 88, .	0.7	11
172	A Constrained Tectonics Model for Coronal Heating. Astrophysical Journal, 2008, 675, 899-905.	1.6	10
173	A Comparison of Spectral Element and Finite Difference Methods Using Statically Refined Nonconforming Grids for the MHD Island Coalescence Instability Problem. Astrophysical Journal, Supplement Series, 2008, 177, 613-625.	3.0	10
174	Study of the effects of guide field on Hall reconnection. Physics of Plasmas, 2013, 20, .	0.7	10
175	Scalings pertaining to current sheet disruption mediated by the plasmoid instability. Physics of Plasmas, 2019, 26, 092112.	0.7	10
176	Compressional Alfvén eigenmodes excited by runaway electrons. Nuclear Fusion, 2021, 61, 036011.	1.6	10
177	Spatial core-edge coupling of the particle-in-cell gyrokinetic codes GEM and XGC. Physics of Plasmas, 2020, 27, 122510.	0.7	10
178	Asymptotics of reflectionless potentials. Physical Review Letters, 1992, 68, 2413-2416.	2.9	9
179	Stability of tearing modes in finiteâ€beta plasmas. Physics of Plasmas, 1994, 1, 2645-2652.	0.7	9
180	Role of photospheric footpoint shear in the impulsive dynamics of the solar corona. Geophysical Research Letters, 1996, 23, 2955-2958.	1.5	9

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181	Discrete kinetic eigenmode spectra of electron plasma oscillations in weakly collisional plasma: A numerical study. Physics of Plasmas, 2013, 20, 012125.	0.7	9
182	A heuristic model for MRI turbulent stresses in Hall MHD. Monthly Notices of the Royal Astronomical Society, 2016, 460, 478-488.	1.6	9
183	Nonlinear resistivity for magnetohydrodynamical models. Physics of Plasmas, 2017, 24, 042120.	0.7	9
184	Adjoint method and runaway electron avalanche. Plasma Physics and Controlled Fusion, 2017, 59, 024003.	0.9	9
185	Structure and overstability of resistive modes with runaway electrons. Physics of Plasmas, 2020, 27, .	0.7	9
186	First coupled GENE–XGC microturbulence simulations. Physics of Plasmas, 2021, 28, 012303.	0.7	9
187	Toward exascale whole-device modeling of fusion devices: Porting the GENE gyrokinetic microturbulence code to GPU. Physics of Plasmas, 2021, 28, .	0.7	9
188	Generalized Boozer coordinates: A natural coordinate system for quasisymmetry. Physics of Plasmas, 2021, 28, 092510.	0.7	9
189	Laser-driven, ion-scale magnetospheres in laboratory plasmas. I. Experimental platform and first results. Physics of Plasmas, 2022, 29, .	0.7	9
190	Energy confinement in turbulent fluid plasmas. Physics of Fluids, 1988, 31, 1153.	1.4	8
191	Wave driven magnetic reconnection in the Taylor problem. Physics of Plasmas, 2003, 10, 4284-4290.	0.7	8
192	Three-dimensional geometry of magnetic reconnection induced by ballooning instability in a generalized Harris sheet. Physics of Plasmas, 2017, 24, .	0.7	8
193	Forced reconnection, current sheets, and coronal heating. Astrophysical Journal, 1992, 401, 371.	1.6	8
194	Generation of squeezed radiation from a free-electron laser. Physical Review A, 1987, 36, 5486-5489.	1.0	7
195	Start-up from noise and high-gain regime of the free electron laser: A hamiltonian formulation, part II. Optics Communications, 1987, 62, 39-44.	1.0	7
196	Ballooning stability of anisotropic, rotating plasmas. Physics of Fluids B, 1990, 2, 2346-2352.	1.7	7
197	Suppression of magnetic islands by energetic ions in toroidal plasmas. Physics of Fluids B, 1990, 2, 1804-1814.	1.7	7
198	Elimination of the sideband instability in variableâ€parameter freeâ€electron lasers and inverse freeâ€electron lasers. Physics of Plasmas, 1994, 1, 390-397.	0.7	7

#	Article	IF	CITATIONS
199	Effect of charge reduction on shielding in dusty plasmas. Physics of Plasmas, 2003, 10, 2663-2666.	0.7	7
200	Heat flux viscosity in collisional magnetized plasmas. Physics of Plasmas, 2015, 22, 053302.	0.7	7
201	An Extended MHD Study of the 16 October 2015 MMS Diffusion Region Crossing. Journal of Geophysical Research: Space Physics, 2019, 124, 8474-8487.	0.8	7
202	Numerical study of <i>δ</i> -function current sheets arising from resonant magnetic perturbations. Physics of Plasmas, 2022, 29, .	0.7	7
203	Some minimum-energy toroidal equilibria. Physics of Fluids, 1983, 26, 520.	1.4	6
204	Wave-particle interaction. Plasma Physics and Controlled Fusion, 2000, 42, B27-B35.	0.9	6
205	Comment on "Improved boundary layer analysis of forced magnetic reconnection due to a boundary perturbation―[Phys. Plasmas 7, 875 (2000)]. Physics of Plasmas, 2001, 8, 374-375.	0.7	6
206	Multi-region relaxed magnetohydrodynamics in plasmas with slowly changing boundaries—Resonant response of a plasma slab. Physics of Plasmas, 2017, 24, .	0.7	6
207	Magnetohydrodynamical equilibria with current singularities and continuous rotational transform. Physics of Plasmas, 2019, 26, .	0.7	6
208	Scaling of Small-scale Dynamo Properties in the Rayleigh–Taylor Instability. Astrophysical Journal, 2021, 921, 75.	1.6	6
209	Inverse-free-electron-laser beat-wave accelerator. Physical Review A, 1990, 42, 4853-4861.	1.0	5
210	Continuous spectrum of a non-neutral plasma column. Physics of Plasmas, 1997, 4, 895-897.	0.7	5
211	Effect of the flow continuum on magnetohydrodynamic stability. Physics of Plasmas, 1997, 4, 3744-3748.	0.7	5
212	Anisotropic wave turbulence in electron MHD. Plasma Physics and Controlled Fusion, 2005, 47, B691-B701.	0.9	5
213	Collisionless kinetic theory of oblique tearing instabilities. Physics of Plasmas, 2018, 25, .	0.7	5
214	Vacuum magnetic fields with exact quasisymmetry near a flux surface. Part 1. Solutions near an axisymmetric surface. Journal of Plasma Physics, 2021, 87, .	0.7	5
215	Improving the stellarator through advances in plasma theory. Nuclear Fusion, 2022, 62, 042012.	1.6	5
216	Weakly quasisymmetric near-axis solutions to all orders. Physics of Plasmas, 2022, 29, .	0.7	5

#	Article	IF	CITATIONS
217	Relaxation of toroidal plasmas with finite pressure. Physics of Fluids, 1986, 29, 1156.	1.4	4
218	Energetic particle stabilization of ballooning modes in finite-aspect-ratio tokamaks. Physics of Fluids, 1988, 31, 332.	1.4	4
219	Islands in three-dimensional steady flows. Journal of Fluid Mechanics, 1991, 227, 527-542.	1.4	4
220	Sufficient condition for a finite-time singularity in a high-symmetry Euler flow: Analysis and statistics. Physical Review E, 1996, 54, 1530-1534.	0.8	4
221	Comment on "Collisionless m=1 reconnection in tokamaks―[Phys. Plasmas 3, 2411 (1996)]. Physics of Plasmas, 1997, 4, 1173-1174.	0.7	4
222	Ionospheric storm forecast for high-frequency communications. Radio Science, 1998, 33, 1413-1428.	0.8	4
223	Generalizations of a nonlinear fluid model for void formation in dusty plasmas. Plasma Physics and Controlled Fusion, 2007, 49, 1583-1597.	0.9	4
224	Islands and current singularities in quasisymmetric toroidal plasmas. Physics of Plasmas, 2021, 28, 092506.	0.7	4
225	Fast Reconnection in Low-density Hydrogen and Pair Plasmas. Plasma and Fusion Research, 2010, 5, S2017-S2017.	0.3	4
226	Variational method for toroidal equilibria with imperfect flux surfaces. Plasma Physics and Controlled Fusion, 1984, 26, 977-990.	0.9	3
227	Suppression and control of magnetic islands in toroidal plasmas. Physics of Fluids B, 1991, 3, 2285-2290.	1.7	3
228	Effective density matrix for free-electron-laser radiation. Physical Review A, 1991, 43, 3206-3209.	1.0	3
229	Poloidal beta scaling for a bootstrapped tokamak. Physics of Fluids B, 1992, 4, 1685-1688.	1.7	3
230	Neoclassical tearing dynamo and selfâ€sustainment of a bootstrapped tokamak. Physics of Fluids B, 1993, 5, 3661-3667.	1.7	3
231	Ginzburg-Landau model for mode competition and single-mode operation of a free-electron laser. Physical Review E, 1998, 58, 3826-3832.	0.8	3
232	Exponential nonlinear growth of a resistive m=1 island. Physics of Plasmas, 1999, 6, 1674-1676.	0.7	3
233	Acoustic modes in dense dusty plasmas. Physics of Plasmas, 2002, 9, 4118-4126.	0.7	3
234	On the question of hysteresis in Hall magnetohydrodynamic reconnection. Physics of Plasmas, 2010, 17, 114507.	0.7	3

#	Article	IF	CITATIONS
235	PLASMA Î ² SCALING OF ANISOTROPIC MAGNETIC FIELD FLUCTUATIONS IN THE SOLAR WIND FLUX TUBE. Astrophysical Journal, 2014, 783, 65.	1.6	3
236	Wall-touching kink mode calculations with the M3D code. Physics of Plasmas, 2015, 22, .	0.7	3
237	Momentum transport and nonlocality in heat-flux-driven magnetic reconnection in high-energy-density plasmas. Physical Review E, 2017, 96, 043203.	0.8	3
238	Regimes of magnetic reconnection in colliding laser-produced magnetized plasma bubbles. Physics of Plasmas, 2018, 25, .	0.7	3
239	Kinetic Simulations of Electron Pre-energization by Magnetized Collisionless Shocks in Expanding Laboratory Plasmas. Astrophysical Journal Letters, 2021, 908, L52.	3.0	3
240	Preface to Special Topic: Building the Bridge to the Exascale—Applications and Opportunities for Plasma Physics. Physics of Plasmas, 2021, 28, 090401.	0.7	3
241	10.1063/1.3606363.1.,2011,,.		3
242	Divergences in the iterative and perturbative methods for computing Hannay's angle. Physical Review A, 1990, 41, 5650-5665.	1.0	2
243	Bootstrap current and Ware pinch in driftâ€wave turbulent transport. Physics of Fluids B, 1991, 3, 3263-3270.	1.7	2
244	Surface currents associated with external kink modes in tokamak plasmas during a major disruption. Physics of Plasmas, 2017, 24, 102520.	0.7	2
245	A Model of Solar Equilibrium: The Hydrodynamic Limit. Astrophysical Journal, 2019, 870, 47.	1.6	2
246	Mechanism of non-steady Petschek-type reconnection with uniform resistivity. Physics of Plasmas, 2019, 26, .	0.7	2
247	Connection between quasisymmetric magnetic fields and anisotropic pressure equilibria in fusion plasmas. Physical Review E, 2021, 104, 015213.	0.8	2
248	Adjoint methods for quasi-symmetry of vacuum fields on a surface. Journal of Plasma Physics, 2022, 88, .	0.7	2
249	Ion Acceleration in Driven Magnetic Reconnection during High-energy–Density Plasma Interaction. Astrophysical Journal, 2021, 907, 86.	1.6	1
250	Electron energization during merging of self-magnetized, high-beta, laser-produced plasmas. Journal of Plasma Physics, 2021, 87, .	0.7	1
251	A Class of Three-dimensional Isothermal Laminated Equilibria and Their Stability. Astrophysical Journal, 1993, 416, 379.	1.6	1
252	Landau Modes are Eigenmodes of Stellar Systems in the Limit of Zero Collisions. Astrophysical Journal, 2021, 923, 271.	1.6	1

#	Article	IF	CITATIONS
253	Variational method for toroidal equilibria with imperfect flux surfaces. Plasma Physics and Controlled Fusion, 1985, 27, 361-361.	0.9	0
254	Coherence and statistical properties of photon beams with application to the free-electron laser. AIP Conference Proceedings, 1989, , .	0.3	0
255	Theory and simulation of an inverse free-electron laser experiment. , 1997, , .		0
256	Anisotropic MHD Turbulence in the Interstellar Medium and Solar Wind. AIP Conference Proceedings, 2003, , .	0.3	0
257	Observation of Naturally-Occurring Waves in a Strongly Coupled Plasma. AIP Conference Proceedings, 2003, , .	0.3	0
258	Magnetic reconnection in plasma under inertial confinement fusion conditions driven by heat flux effects in OHM'S law. , 2013, , .		0
259	Magnetic field generation, Weibel-mediated collisionless shocks, and magnetic reconnection in colliding laser-produced plasmas. Proceedings of the International Astronomical Union, 2015, 11, 329-332.	0.0	0
260	Response to "Comment on †Surface currents associated with external kink modes in tokamak plasmas during a major disruption'―[Phys. Plasmas 26, 054701 (2019)]. Physics of Plasmas, 2019, 26, 054702.	0.7	0
261	10.1063/1.4976712.1.,2017,,.		0
262	Reconstruction of Electron and Ion Distribution Functions in a Magnetotail Reconnection Diffusion Region. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027879.	0.8	0