

Patrick H Diamond

List of Publications by Year in descending order

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422
papers

19,790
citations

13854

67
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17090

122
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430
all docs

430
docs citations

430
times ranked

3955
citing authors

#	ARTICLE	IF	CITATIONS
1	Zonal flows in plasma—a review. Plasma Physics and Controlled Fusion, 2005, 47, R35-R161.	0.9	1,682
2	Influence of sheared poloidal rotation on edge turbulence. Physics of Fluids B, 1990, 2, 1-4.	1.7	1,346
3	Theory of mean poloidal flow generation by turbulence. Physics of Fluids B, 1991, 3, 1626-1633.	1.7	420
4	Self-Regulating Shear Flow Turbulence: A Paradigm for the LtoH Transition. Physical Review Letters, 1994, 72, 2565-2568.	2.9	336
5	Identification of Zonal Flows in a Toroidal Plasma. Physical Review Letters, 2004, 93, 165002.	2.9	331
6	On the dynamics of turbulent transport near marginal stability. Physics of Plasmas, 1995, 2, 3640-3649.	0.7	330
7	Neoclassical poloidal and toroidal rotation in tokamaks. Physics of Fluids B, 1991, 3, 2050-2060.	1.7	307
8	Zonal Flows and Transient Dynamics of the L~H Transition. Physical Review Letters, 2003, 90, 185006.	2.9	269
9	Self-consistent theory of mean-field electrodynamics. Physical Review Letters, 1994, 72, 1651-1653.	2.9	243
10	Effects of Collisional Zonal Flow Damping on Turbulent Transport. Physical Review Letters, 1999, 83, 3645-3648.	2.9	237
11	The dynamics of marginality and self-organized criticality as a paradigm for turbulent transport. Physics of Plasmas, 1996, 3, 1858-1866.	0.7	209
12	A model realization of self-organized criticality for plasma confinement. Physics of Plasmas, 1996, 3, 2903-2911.	0.7	196
13	Intrinsic rotation and electric field shear. Physics of Plasmas, 2007, 14, 042306.	0.7	195
14	Turbulence spreading into the linearly stable zone and transport scaling. Plasma Physics and Controlled Fusion, 2004, 46, A323-A333.	0.9	185
15	Theory of ion-temperature-gradient-driven turbulence in tokamaks. Physics of Fluids, 1986, 29, 3291.	1.4	178
16	Physics of zonal flows. Physics of Plasmas, 2006, 13, 055502.	0.7	172
17	Local measurements of correlated momentum and heat transport in the TFTR tokamak. Physical Review Letters, 1990, 64, 531-534.	2.9	171
18	Transport Effects Induced by Resistive Ballooning Modes and Comparison with High- β ISX-B Tokamak Confinement. Physical Review Letters, 1983, 50, 503-506.	2.9	166

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19	Nonlinear gyrokinetic theory of toroidal momentum pinch. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	165
20	On the validity of the local diffusive paradigm in turbulent plasma transport. <i>Physical Review E</i> , 2010, 82, 025401.	0.8	155
21	First Evidence of the Role of Zonal Flows for the $L \rightarrow H$ Transition at Marginal Input Power in the EAST Tokamak. <i>Physical Review Letters</i> , 2011, 107, 125001.	2.9	152
22	Momentum and thermal transport in neutral-beam-heated tokamaks. <i>Physics of Fluids</i> , 1988, 31, 1180.	1.4	150
23	Nondiffusive Transport in Tokamaks: Three-Dimensional Structure of Bursts and the Role of Zonal Flows. <i>Physical Review Letters</i> , 2000, 85, 4892-4895.	2.9	150
24	Coherent Structure Phenomena in Drift Wave "Zonal Flow Turbulence. <i>Physical Review Letters</i> , 2000, 84, 491-494.	2.9	148
25	Zonal flow generation by parametric instability in magnetized plasmas and geostrophic fluids. <i>Physics of Plasmas</i> , 2000, 7, 1349-1351.	0.7	148
26	Toroidal ion pressure-gradient-driven drift instabilities and transport revisited. <i>Physics of Fluids B</i> , 1989, 1, 109-118.	1.7	146
27	Full-f gyrokinetic particle simulation of centrally heated global ITG turbulence from magnetic axis to edge pedestal top in a realistic tokamak geometry. <i>Nuclear Fusion</i> , 2009, 49, 115021.	1.6	139
28	Theory of resistive pressure-gradient-driven turbulence. <i>Physics of Fluids</i> , 1987, 30, 1388.	1.4	134
29	In Search of the Elusive Zonal Flow Using Cross-Bicoherence Analysis. <i>Physical Review Letters</i> , 2000, 84, 4842-4845.	2.9	126
30	Transport of parallel momentum by collisionless drift wave turbulence. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	126
31	Spatio-temporal evolution of the $L \rightarrow H$ transition. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	117
32	Secondary instability in drift wave turbulence as a mechanism for zonal flow and avalanche formation. <i>Nuclear Fusion</i> , 2001, 41, 1067-1080.	1.6	116
33	Theory of dissipative density-gradient-driven turbulence in the tokamak edge. <i>Physics of Fluids</i> , 1985, 28, 1419.	1.4	111
34	Experimental progress on zonal flow physics in toroidal plasmas. <i>Nuclear Fusion</i> , 2007, 47, S718-S726.	1.6	109
35	Invariant Measure and Turbulent Pinch in Tokamaks. <i>Physical Review Letters</i> , 1995, 74, 4436-4439.	2.9	108
36	Dynamics of turbulence spreading in magnetically confined plasmas. <i>Physics of Plasmas</i> , 2005, 12, 032303.	0.7	107

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37	Theory of shear suppression of edge turbulence by externally driven radio-frequency waves. Physical Review Letters, 1991, 67, 1535-1538.	2.9	105
38	Spatiotemporal Structure of the Interaction between Turbulence and Flows at the L-H Transition in a Toroidal Plasma. Physical Review Letters, 2011, 107, 245004.	2.9	104
39	ANALYTIC SOLUTION FOR SELF-REGULATED COLLECTIVE ESCAPE OF COSMIC RAYS FROM THEIR ACCELERATION SITES. Astrophysical Journal, 2013, 768, 73.	1.6	102
40	Finding the Elusive E B Staircase in Magnetized Plasmas. Physical Review Letters, 2015, 114, 085004.	2.9	98
41	Dynamics of Transition to Enhanced Confinement in Reversed Magnetic Shear Discharges. Physical Review Letters, 1997, 78, 1472-1475.	2.9	93
42	Residual parallel Reynolds stress due to turbulence intensity gradient in tokamak plasmas. Physics of Plasmas, 2010, 17, .	0.7	91
43	Plateau regime dynamics of the relaxation of poloidal rotation in tokamak plasmas. Physics of Plasmas, 1996, 3, 3023-3031.	0.7	88
44	Generalized action invariants for drift waves-zonal flow systems. Physics of Plasmas, 1999, 6, 4410-4413.	0.7	84
45	Edge Temperature Gradient as Intrinsic Rotation Drive in Alcator C -Mod Tokamak Plasmas. Physical Review Letters, 2011, 106, 215001.	2.9	83
46	Zonal flow triggers the L-H transition in the Experimental Advanced Superconducting Tokamak. Physics of Plasmas, 2012, 19, 072311.	0.7	83
47	Theory of shear flow effects on long-wavelength drift wave turbulence. Physics of Fluids B, 1992, 4, 3115-3131.	1.7	82
48	Frequency-Resolved Nonlinear Turbulent Energy Transfer into Zonal Flows in Strongly Heated L -Mode Plasmas in the HL-2A Tokamak. Physical Review Letters, 2012, 108, 245001.	2.9	82
49	Streamer and zonal flow generation from envelope modulations in drift wave turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 288, 214-219.	0.9	81
50	Nonlinear flow generation by electrostatic turbulence in tokamaks. Physics of Plasmas, 2010, 17, 072511.	0.7	81
51	Mechanism for spectral break in cosmic ray proton spectrum of supernova remnant W44. Nature Communications, 2011, 2, 194.	5.8	81
52	Rotation Reversal Bifurcation and Energy Confinement Saturation in Tokamak Ohmic L -Mode Plasmas. Physical Review Letters, 2011, 107, 265001.	2.9	81
53	Compressed ion temperature gradient turbulence in diverted tokamak edge. Physics of Plasmas, 2009, 16, .	0.7	80
54	Theory of resistivity-gradient-driven turbulence. Physics of Fluids, 1985, 28, 2147.	1.4	79

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55	$\hat{\rho}^2$ -Plane Magnetohydrodynamic Turbulence in the Solar Tachocline. <i>Astrophysical Journal</i> , 2007, 667, L113-L116.	1.6	79
56	Fluctuating zonal flows in the I-mode regime in Alcator C-Mod. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	79
57	Theory of anomalous tearing mode growth and the major tokamak disruption. <i>Physics of Fluids</i> , 1984, 27, 1449.	1.4	77
58	Mesoscopic Transport Events and the Breakdown of Fick's Law for Turbulent Fluxes. <i>Journal of the Korean Physical Society</i> , 2018, 73, 747-792.	0.3	77
59	Nonlinear mean field electrodynamics of turbulent dynamos. <i>Physics of Plasmas</i> , 1996, 3, 1853-1857.	0.7	75
60	On the nature of bursting in transport and turbulence in drift wave-zonal flow systems. <i>Physics of Plasmas</i> , 2001, 8, 5073-5076.	0.7	75
61	Dynamics of low to high (L to H) confinement bifurcation: Poloidal flow and ion pressure gradient evolution. <i>Physics of Plasmas</i> , 1994, 1, 4014-4021.	0.7	74
62	Mechanisms for generating toroidal rotation in tokamaks without external momentum input. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	74
63	Dynamics of spatiotemporally propagating transport barriers. <i>Physics of Plasmas</i> , 1995, 2, 3685-3695.	0.7	73
64	Resistive pressure-gradient-driven turbulence with self-consistent flow profile evolution. <i>Physics of Fluids B</i> , 1993, 5, 1491-1505.	1.7	69
65	Front propagation and critical gradient transport models. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	68
66	Mean Field Magnetohydrodynamics of Accretion Disks. <i>Astrophysical Journal</i> , 2007, 665, 535-553.	1.6	68
67	Mean shear flows, zonal flows, and generalized Kelvin-Helmholtz modes in drift wave turbulence: A minimal model for L to H transition. <i>Physics of Plasmas</i> , 2003, 10, 1698-1704.	0.7	67
68	Vorticity dynamics, drift wave turbulence, and zonal flows: a look back and a look ahead. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 124001.	0.9	66
69	Dynamics of zonal flow saturation in strong collisionless drift wave turbulence. <i>Physics of Plasmas</i> , 2002, 9, 4530-4539.	0.7	64
70	Self-consistent mean field electrodynamics of turbulent dynamos. <i>Physics of Plasmas</i> , 1995, 2, 1941-1946.	0.7	63
71	Fluid models for kinetic effects on coherent nonlinear Alfvén waves. I. Fundamental theory. <i>Physics of Plasmas</i> , 1996, 3, 863-873.	0.7	63
72	Whistlerization and anisotropy in two-dimensional electron magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2000, 7, 571-579.	0.7	63

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73	Proton-Helium Spectral Anomaly as a Signature of Cosmic Ray Accelerator. <i>Physical Review Letters</i> , 2012, 108, 081104.	2.9	63
74	Nonlinear interaction of toroidicity-induced drift modes. <i>Physics of Fluids</i> , 1984, 27, 916.	1.4	62
75	Effects of a radial electric field on tokamak edge turbulence. <i>Physics of Fluids</i> , 1986, 29, 231.	1.4	62
76	Thermal diffusivity induced by resistive pressureâ€gradientâ€driven turbulence. <i>Physics of Fluids B</i> , 1989, 1, 1011-1017.	1.7	62
77	Multiscale interaction of a tearing mode with drift wave turbulence: A minimal self-consistent model. <i>Physics of Plasmas</i> , 2006, 13, 032302.	0.7	62
78	Selfâ€organization in sheared driftâ€wave turbulence. <i>Physics of Fluids B</i> , 1991, 3, 51-67.	1.7	61
79	Wave-Particle Decorrelation and Transport of Anisotropic Turbulence in Collisionless Plasmas. <i>Physical Review Letters</i> , 2007, 99, 265003.	2.9	61
80	Dynamics and control of internal transport barriers in reversed shear discharges. <i>Physics of Plasmas</i> , 1998, 5, 938-952.	0.7	59
81	Observation of temperature-dependent transport in the TFTR tokamak. <i>Physical Review Letters</i> , 1991, 66, 421-424.	2.9	58
82	Role of ion diamagnetic effects in the generation of large scale flows in toroidal ion temperature gradient mode turbulence. <i>Physics of Plasmas</i> , 2000, 7, 3987.	0.7	58
83	Observation of the parametric-modulational instability between the drift-wave fluctuation and azimuthally symmetric sheared radial electric field oscillation in a cylindrical laboratory plasma. <i>Physics of Plasmas</i> , 2009, 16, 020706.	0.7	58
84	Nonlinear dynamics of tearing modes in the reversed field pinch. <i>Physics of Fluids</i> , 1988, 31, 1166.	1.4	56
85	Ohmic energy confinement saturation and core toroidal rotation reversal in Alcator C-Mod plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	56
86	Critical Self-Organization of Astrophysical Shocks. <i>Astrophysical Journal</i> , 2000, 533, L171-L174.	1.6	56
87	Geodesic Acoustic Eigenmodes. <i>Plasma and Fusion Research</i> , 2006, 1, 037-037.	0.3	56
88	The effects of compressibility of the resistive ballooning mode. <i>Physics of Fluids</i> , 1984, 27, 1439.	1.4	55
89	Fluid models for kinetic effects on coherent nonlinear AlfvÃ©n waves. II. Numerical solutions. <i>Physics of Plasmas</i> , 1997, 4, 1257-1285.	0.7	55
90	Theory of the spatiotemporal dynamics of transport bifurcations. <i>Physics of Plasmas</i> , 1997, 4, 1087-1096.	0.7	54

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91	Resistive fluid turbulence in diverted tokamaks and the edge transport barrier in H-mode plasmas. <i>Physics of Fluids</i> , 1987, 30, 133.	1.4	53
92	Structure formation and transport in dissipative drift-wave turbulence. <i>Physics of Fluids B</i> , 1992, 4, 2785-2793.	1.7	53
93	Turbulent Equipartition and Homogenization of Plasma Angular Momentum. <i>Physical Review Letters</i> , 2008, 100, 135001.	2.9	53
94	Experimental Evidence for the Intimate Interaction among Sheared Flows, Eddy Structures, Reynolds Stress, and Zonal Flows across a Transition to Improved Confinement. <i>Physical Review Letters</i> , 2013, 111, .	2.9	53
95	Thermally driven convective cells and tokamak edge turbulence. <i>Physics of Fluids</i> , 1987, 30, 3724.	1.4	52
96	Radially sheared azimuthal flows and turbulent transport in a cylindrical plasma. <i>Physics of Plasmas</i> , 2004, 11, 5195-5203.	0.7	52
97	Fluctuations and anomalous transport (in tokamaks, particularly TEXT). <i>Plasma Physics and Controlled Fusion</i> , 1988, 30, 1479-1491.	0.9	51
98	Statistical dynamics of dissipative drift wave turbulence. <i>Physics of Fluids B</i> , 1991, 3, 955-968.	1.7	51
99	Stability of ion-temperature-gradient-driven modes in the presence of sheared poloidal flows. <i>Physics of Fluids B</i> , 1992, 4, 2402-2413.	1.7	50
100	Anomalous pinch effect and energy exchange in tokamaks. <i>Physics of Plasmas</i> , 1996, 3, 1916-1925.	0.7	49
101	On the bicoherence analysis of plasma turbulence. <i>Physics of Plasmas</i> , 2005, 12, 102301.	0.7	49
102	Zonal flow production in the L-H transition in Alcator C-Mod. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 075013.	0.9	49
103	A kinetic theory of trapped-electron-driven drift wave turbulence in a sheared magnetic field. <i>Physics of Fluids B</i> , 1991, 3, 68-86.	1.7	48
104	Analytic theory of L-H transition, barrier structure, and hysteresis for a simple model of coupled particle and heat fluxes. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	48
105	Gyrokinetic Studies on Turbulence-Driven and Neoclassical Nondiffusive Toroidal-Momentum Transport and the Effect of Residual Fluctuations in Strong $E \times B$ Shear. <i>Physical Review Letters</i> , 2009, 102, 085005.	2.9	48
106	PROBING NEARBY COSMIC-RAY ACCELERATORS AND INTERSTELLAR MEDIUM TURBULENCE WITH MILAGRO HOT SPOTS. <i>Astrophysical Journal</i> , 2010, 721, 750-761.	1.6	48
107	Theory of ionization-driven drift wave turbulence. <i>Physics of Fluids B</i> , 1992, 4, 877-887.	1.7	47
108	Coherent nonlinear structures of drift wave turbulence modulated by zonal flows. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 51-59.	0.9	47

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109	Coherent structure of zonal flow and onset of turbulent transport. <i>Physics of Plasmas</i> , 2005, 12, 062303.	0.7	47
110	Momentum theorems and the structure of atmospheric jets and zonal flows in plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124018.	0.9	47
111	Zonal flows and pattern formation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 293001.	0.7	47
112	TEXT tokamak edge turbulence modeling. <i>Physics of Fluids B</i> , 1991, 3, 2291-2299.	1.7	46
113	Asymptotic Theory of Nonlinear Landau Damping and Particle Trapping in Waves of Finite Amplitude. <i>Physical Review Letters</i> , 1998, 81, 5824-5827.	2.9	46
114	Recent progress towards a physics-based understanding of the H-mode transition. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 044003.	0.9	46
115	Radial fluctuation scale of ion temperature gradient driven turbulence. <i>Physics of Fluids</i> , 1988, 31, 2920.	1.4	45
116	Modulational interaction between drift waves and trapped ion convective cells: A paradigm for the self-consistent interaction of large-scale sheared flows with small-scale fluctuations. <i>Physics of Plasmas</i> , 1995, 2, 4420-4431.	0.7	45
117	Experimental Evidence of a Zonal Magnetic Field in a Toroidal Plasma. <i>Physical Review Letters</i> , 2007, 98, 165001.	2.9	45
118	Gyrokinetic Theory of Turbulent Acceleration of Parallel Rotation in Tokamak Plasmas. <i>Physical Review Letters</i> , 2013, 110, 265006.	2.9	45
119	Transport reduction via shear flow modification of the cross phase. <i>Plasma Physics and Controlled Fusion</i> , 1996, 38, 1343-1347.	0.9	44
120	On the dynamics of edge-core coupling. <i>Physics of Plasmas</i> , 2005, 12, 090903.	0.7	44
121	Turbulent equipartition theory of toroidal momentum pinch. <i>Physics of Plasmas</i> , 2008, 15, 055902.	0.7	44
122	On the efficiency of intrinsic rotation generation in tokamaks. <i>Physics of Plasmas</i> , 2010, 17, 102313.	0.7	44
123	Dynamics of second-order phase transitions in resistive pressure-gradient-driven turbulence. <i>Physics of Plasmas</i> , 1995, 2, 2744-2752.	0.7	43
124	Kinetic theory of resistive ballooning modes. <i>Physics of Fluids</i> , 1985, 28, 1116.	1.4	42
125	Drift wave propagation as a source of plasma edge turbulence. <i>Physical Review Letters</i> , 1994, 72, 486-489.	2.9	42
126	A minimal dynamical model of edge localized mode phenomena. <i>Physics of Plasmas</i> , 1995, 2, 3345-3359.	0.7	42

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127	On Turbulent Reconnection. <i>Astrophysical Journal</i> , 2001, 556, 1052-1065.	1.6	42
128	Gyro-fluid and two-fluid theory and simulations of edge-localized-modes. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	42
129	Bursty transport in tokamak turbulence: Role of zonal flows and internal transport barriers. <i>Nuclear Fusion</i> , 2001, 41, 995-1001.	1.6	41
130	Wave-Number Spectrum of Drift-Wave Turbulence. <i>Physical Review Letters</i> , 2009, 102, 255002.	2.9	41
131	Toroidal Rotation Driven by the Polarization Drift. <i>Physical Review Letters</i> , 2009, 103, 205003.	2.9	41
132	A nonlinear bounceâ€”kinetic equation for trapped electrons. <i>Physics of Fluids B</i> , 1990, 2, 2976-2985.	1.7	40
133	A novel mechanism for exciting intrinsic toroidal rotation. <i>Physics of Plasmas</i> , 2009, 16, 052302.	0.7	40
134	Theory of neoclassical ion temperatureâ€”gradientâ€”driven turbulence. <i>Physics of Fluids B</i> , 1991, 3, 384-394.	1.7	39
135	From Phase Locking to Phase Slips: A Mechanism for a Quiescent H mode. <i>Physical Review Letters</i> , 2015, 114, 145002.	2.9	39
136	Theory of trapped ionâ€”temperatureâ€”gradientâ€”driven turbulence and transport in lowâ€”collisionality plasmas. <i>Physics of Fluids</i> , 1988, 31, 2644-2658.	1.4	38
137	Drift wave propagation as a source of plasma edge turbulence: Slab theory. <i>Physics of Plasmas</i> , 1994, 1, 4002-4013.	0.7	38
138	On the stability of drift wave spectra with respect to zonal flow excitation. <i>Physics of Plasmas</i> , 2001, 8, 1553-1558.	0.7	38
139	Electromagnetic secondary instabilities in electron temperature gradient turbulence. <i>Physics of Plasmas</i> , 2002, 9, 3857-3866.	0.7	38
140	Generation of a Sheared Plasma Rotation by Emission, Propagation, and Absorption of Drift Wave Packets. <i>Physical Review Letters</i> , 2011, 107, 055003.	2.9	38
141	Theory of two-dimensional mean field electron magnetohydrodynamics. <i>Physics of Plasmas</i> , 2000, 7, 170-177.	0.7	37
142	Non-perturbative models of intermittency in drift-wave turbulence: towards a probabilistic theory of anomalous transport. <i>Nuclear Fusion</i> , 2003, 43, 961-968.	1.6	37
143	A simple model of interactions between electron temperature gradient and drift-wave turbulence. <i>Physics of Plasmas</i> , 2004, 11, 1043-1051.	0.7	37
144	Radial transport of fluctuation energy in a two-field model of drift-wave turbulence. <i>Physics of Plasmas</i> , 2006, 13, 052306.	0.7	37

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145	Intermittent characteristics in coupling between turbulence and zonal flows. Plasma Physics and Controlled Fusion, 2007, 49, 211-217.	0.9	37
146	The structure and dynamics of electrostatic and magnetostatic drift holes. Physics of Fluids B, 1990, 2, 2048-2063.	1.7	36
147	Dissipative Dynamics of Collisionless Nonlinear Alfvén Wave Trains. Physical Review Letters, 1997, 78, 4934-4937.	2.9	36
148	Intrinsic Rotation from a Residual Stress at the Boundary of a Cylindrical Laboratory Plasma. Physical Review Letters, 2010, 104, 065002.	2.9	36
149	On the mechanism for edge localized mode mitigation by supersonic molecular beam injection. Physics of Plasmas, 2012, 19, 022505.	0.7	36
150	How mesoscopic staircases condense to macroscopic barriers in confined plasma turbulence. Physical Review E, 2016, 94, 051202.	0.8	36
151	Self-Consistency Constraints on Turbulent Magnetic Transport and Relaxation in a Collisionless Plasma. Physical Review Letters, 1986, 57, 1899-1902.	2.9	35
152	Theory of ion Bernstein wave induced shear suppression of turbulence. Physics of Plasmas, 1994, 1, 1944-1952.	0.7	35
153	Role of neutrals in the phase transition model. Physics of Plasmas, 1996, 3, 4106-4114.	0.7	35
154	Dynamics of Mesoscale Magnetic Field in Diffusive Shock Acceleration. Astrophysical Journal, 2007, 654, 252-266.	1.6	35
155	Neoclassical physics in full distribution function gyrokinetics. Physics of Plasmas, 2011, 18, .	0.7	35
156	Nonlinear current-driven ion-acoustic instability driven by phase-space structures. Plasma Physics and Controlled Fusion, 2014, 56, 075005.	0.9	35
157	Investigations of the role of nonlinear couplings in structure formation and transport regulation: experiment, simulation, and theory. Nuclear Fusion, 2003, 43, 761-780.	1.6	34
158	On the Gamma-Ray Spectra Radiated by Protons Accelerated in Supernova Remnant Shocks near Molecular Clouds: The case of Supernova Remnant RX J1713.7-3946. Astrophysical Journal, 2005, 624, L37-L40.	1.6	34
159	Statistical mechanics of a two-field model of drift wave turbulence. Physics of Fluids B, 1989, 1, 1331-1333.	1.7	33
160	Theory of drift-thermal instability-induced turbulence. Physics of Fluids B, 1992, 4, 102-116.	1.7	33
161	Theory of electric-field curvature effects on long-wavelength drift wave turbulence. Physics of Plasmas, 1994, 1, 1142-1153.	0.7	33
162	Turbulent heat and particle flux response to electric field shear. Physics of Plasmas, 1998, 5, 173-177.	0.7	33

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163	Trapped Electron Mode Turbulence Driven Intrinsic Rotation in Tokamak Plasmas. <i>Physical Review Letters</i> , 2011, 106, 085001.	2.9	33
164	Role of impurity dynamics in resistivity-gradient-driven turbulence and tokamak edge plasma phenomena. <i>Physics of Fluids</i> , 1987, 30, 1452.	1.4	32
165	Turbulence and transport characteristics of a barrier in a toroidal plasma. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, S205-S212.	0.9	32
166	Physics of Stimulated $L \rightarrow H$ Transitions. <i>Physical Review Letters</i> , 2013, 110, 195002.	2.9	32
167	Mechanics dictate where and how freshwater planarians fission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10888-10893.	3.3	32
168	Theory of dissipative trapped-ion convective-cell turbulence. <i>Physical Review Letters</i> , 1990, 65, 2865-2868.	2.9	31
169	The dynamics of spectral transfer in a model of drift wave turbulence with two nonlinearities. <i>Physics of Fluids B</i> , 1993, 5, 1140-1153.	1.7	31
170	Turbulence spreading in reversed shear plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, A409-A418.	0.9	31
171	Causal Relationship between Zonal Flow and Turbulence in a Toroidal Plasma. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 033501.	0.7	31
172	Intermittency in Drift-Wave Turbulence: Structure of the Momentum Flux Probability Distribution Function. <i>Physical Review Letters</i> , 2002, 88, 225002.	2.9	30
173	Effect of Mean Flow Shear on Cross Phase and Transport Reconsidered. <i>Physical Review Letters</i> , 2003, 91, 075001.	2.9	30
174	Collisional Damping of ETG-Mode-Driven Zonal Flows. <i>Physical Review Letters</i> , 2003, 91, 075003.	2.9	30
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