

B A Carreras

List of Publications by Year in descending order

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173
papers

8,219
citations

41627

51
h-index

60403

85
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175
all docs

175
docs citations

175
times ranked

3040
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluctuations and anomalous transport in tokamaks. <i>Physics of Fluids B</i> , 1990, 2, 2879-2903.	1.7	447
2	Self-Regulating Shear Flow Turbulence: A Paradigm for the LtoH Transition. <i>Physical Review Letters</i> , 1994, 72, 2565-2568.	2.9	336
3	Anomalous diffusion and exit time distribution of particle tracers in plasma turbulence model. <i>Physics of Plasmas</i> , 2001, 8, 5096-5103.	0.7	239
4	Fractional diffusion in plasma turbulence. <i>Physics of Plasmas</i> , 2004, 11, 3854-3864.	0.7	223
5	The dynamics of marginality and self-organized criticality as a paradigm for turbulent transport. <i>Physics of Plasmas</i> , 1996, 3, 1858-1866.	0.7	209
6	Disturbances in a power transmission system. <i>Physical Review E</i> , 2000, 61, 4877-4882.	0.8	208
7	Nondiffusive Transport in Plasma Turbulence: A Fractional Diffusion Approach. <i>Physical Review Letters</i> , 2005, 94, 065003.	2.9	203
8	A model realization of self-organized criticality for plasma confinement. <i>Physics of Plasmas</i> , 1996, 3, 2903-2911.	0.7	196
9	Complex dynamics of blackouts in power transmission systems. <i>Chaos</i> , 2004, 14, 643-652.	1.0	190
10	Front Dynamics in Reaction-Diffusion Systems with Levy Flights: A Fractional Diffusion Approach. <i>Physical Review Letters</i> , 2003, 91, 018302.	2.9	175
11	Transport Effects Induced by Resistive Ballooning Modes and Comparison with High- β ISX-B Tokamak Confinement. <i>Physical Review Letters</i> , 1983, 50, 503-506.	2.9	166
12	The Advanced Toroidal Facility. <i>Fusion Science and Technology</i> , 1986, 10, 179-226.	0.6	150
13	Long-Range Time Correlations in Plasma Edge Turbulence. <i>Physical Review Letters</i> , 1998, 80, 4438-4441.	2.9	143
14	Fluctuation-induced flux at the plasma edge in toroidal devices. <i>Physics of Plasmas</i> , 1996, 3, 2664-2672.	0.7	139
15	Theory of resistive pressure-gradient-driven turbulence. <i>Physics of Fluids</i> , 1987, 30, 1388.	1.4	134
16	Self-similarity of the plasma edge fluctuations. <i>Physics of Plasmas</i> , 1998, 5, 3632-3643.	0.7	132
17	In Search of the Elusive Zonal Flow Using Cross-Bicoherence Analysis. <i>Physical Review Letters</i> , 2000, 84, 4842-4845.	2.9	126
18	Self-Similarity Properties of the Probability Distribution Function of Turbulence-Induced Particle Fluxes at the Plasma Edge. <i>Physical Review Letters</i> , 1999, 83, 3653-3656.	2.9	117

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19	Stability of ideal and resistive internal kink modes in toroidal geometry. <i>Physics of Fluids</i> , 1987, 30, 1756.	1.4	110
20	Waiting-Time Statistics of Self-Organized-Criticality Systems. <i>Physical Review Letters</i> , 2002, 88, 068302.	2.9	101
21	Dynamics of Transition to Enhanced Confinement in Reversed Magnetic Shear Discharges. <i>Physical Review Letters</i> , 1997, 78, 1472-1475.	2.9	93
22	Electron diamagnetic effects on the resistive pressure-gradient-driven turbulence and poloidal flow generation. <i>Physics of Fluids B</i> , 1991, 3, 1438-1444.	1.7	91
23	Evidence of Long-Distance Correlation of Fluctuations during Edge Transitions to Improved-Confinement Regimes in the TJ-II Stellarator. <i>Physical Review Letters</i> , 2008, 100, 215003.	2.9	91
24	Linearized gyrofluid model of the alpha-destabilized toroidal Alfvén eigenmode with continuum damping effects. <i>Physics of Fluids B</i> , 1992, 4, 3316-3328.	1.7	85
25	Pedestal profiles and fluctuations in C-Mod enhanced D-alpha H-modes. <i>Physics of Plasmas</i> , 2001, 8, 2033-2040.	0.7	85
26	Statistical characterization of fluctuation wave forms in the boundary region of fusion and nonfusion plasmas. <i>Physics of Plasmas</i> , 2000, 7, 1408-1416.	0.7	84
27	On the applicability of Fick's law to diffusion in inhomogeneous systems. <i>European Journal of Physics</i> , 2005, 26, 913-925.	0.3	84
28	Theory of shear flow effects on long-wavelength drift wave turbulence. <i>Physics of Fluids B</i> , 1992, 4, 3115-3131.	1.7	82
29	Theory of resistivity-gradient-driven turbulence. <i>Physics of Fluids</i> , 1985, 28, 2147.	1.4	79
30	Nonlinear evolution of the toroidal Alfvén instability using a gyrofluid model*. <i>Physics of Plasmas</i> , 1994, 1, 1503-1510.	0.7	79
31	Theory of anomalous tearing mode growth and the major tokamak disruption. <i>Physics of Fluids</i> , 1984, 27, 1449.	1.4	77
32	Empirical Similarity of Frequency Spectra of the Edge-Plasma Fluctuations in Toroidal Magnetic-Confinement Systems. <i>Physical Review Letters</i> , 1999, 82, 3621-3624.	2.9	77
33	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
34	Dynamics of spatiotemporally propagating transport barriers. <i>Physics of Plasmas</i> , 1995, 2, 3685-3695.	0.7	73
35	Probabilistic finite-size transport models for fusion: Anomalous transport and scaling laws. <i>Physics of Plasmas</i> , 2004, 11, 2272-2285.	0.7	72
36	Generation of sheared poloidal flows via Reynolds stress and transport barrier physics. <i>Plasma Physics and Controlled Fusion</i> , 2000, 42, A153-A160.	0.9	71

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37	Resistive pressureâ€gradientâ€driven turbulence with selfâ€consistent flow profile evolution. Physics of Fluids B, 1993, 5, 1491-1505.	1.7	69
38	Intermittency of plasma edge fluctuation data: Multifractal analysis. Physics of Plasmas, 2000, 7, 3278-3287.	0.7	68
39	SlowLâˆHTransitions in DIII-D Plasmas. Physical Review Letters, 2002, 88, 255002.	2.9	68
40	Thermal diffusivity induced by resistive pressureâ€gradientâ€driven turbulence. Physics of Fluids B, 1989, 1, 1011-1017.	1.7	62
41	Effects of neutral particles on edge dynamics in Alcator C-Mod plasmas. Physics of Plasmas, 2000, 7, 1919-1926.	0.7	62
42	Quiet-Time Statistics of Electrostatic Turbulent Fluxes from the JET Tokamak and the W7-AS and TJ-II Stellarators. Physical Review Letters, 2003, 90, 185005.	2.9	62
43	Equilibrium and stability properties of high-beta torsatrons. Physics of Fluids, 1983, 26, 3569.	1.4	61
44	Dynamics and control of internal transport barriers in reversed shear discharges. Physics of Plasmas, 1998, 5, 938-952.	0.7	59
45	Additional evidence for the universality of the probability distribution of turbulent fluctuations and fluxes in the scrape-off layer region of fusion plasmas. Physics of Plasmas, 2005, 12, 052507.	0.7	58
46	Experimental evidence of long-range correlations and self-similarity in plasma fluctuations. Physics of Plasmas, 1999, 6, 1885-1892.	0.7	57
47	Nonlinear dynamics of tearing modes in the reversed field pinch. Physics of Fluids, 1988, 31, 1166.	1.4	56
48	Structure and properties of the electrostatic fluctuations in the far scrape-off layer region of Alcator C-Mod. Physics of Plasmas, 2001, 8, 3702-3707.	0.7	56
49	The effects of compressibility of the resistive ballooning mode. Physics of Fluids, 1984, 27, 1439.	1.4	55
50	Second stability in the ATF torsatron. Physical Review Letters, 1989, 63, 1249-1252.	2.9	54
51	Anomalous diffusion in a running sandpile model. Physical Review E, 1999, 60, 4770-4778.	0.8	52
52	Sheared flow amplification by vacuum magnetic islands in stellarator plasmas. Physics of Plasmas, 2001, 8, 4111-4119.	0.7	50
53	Bootstrap current control in stellarators. Physics of Fluids B, 1989, 1, 1663-1670.	1.7	49
54	Theory of ionizationâ€driven drift wave turbulence. Physics of Fluids B, 1992, 4, 877-887.	1.7	47

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55	Effect of edge neutrals on the low-to-high confinement transition threshold in the DIII-D tokamak. <i>Physics of Plasmas</i> , 1998, 5, 2623-2636.	0.7	47
56	TEXT tokamak edge turbulence modeling. <i>Physics of Fluids B</i> , 1991, 3, 2291-2299.	1.7	46
57	Bootstrap-current experiments in a toroidal plasma-confinement device. <i>Physical Review Letters</i> , 1991, 66, 707-710.	2.9	46
58	Rippling modes in the edge of a tokamak plasma. <i>Physics of Fluids</i> , 1982, 25, 1231.	1.4	45
59	Nature of Transport across Sheared Zonal Flows in Electrostatic Ion-Temperature-Gradient Gyrokinetic Plasma Turbulence. <i>Physical Review Letters</i> , 2008, 101, 205002.	2.9	45
60	Transport reduction via shear flow modification of the cross phase. <i>Plasma Physics and Controlled Fusion</i> , 1996, 38, 1343-1347.	0.9	44
61	Fluid limit of nonintegrable continuous-time random walks in terms of fractional differential equations. <i>Physical Review E</i> , 2005, 71, 011111.	0.8	44
62	Magnetohydrodynamic Instability with Neutral-Beam Heating in the ISX-B Tokamak. <i>Physical Review Letters</i> , 1982, 48, 538-541.	2.9	43
63	Dynamics of second-order phase transitions in resistive pressure-gradient-driven turbulence. <i>Physics of Plasmas</i> , 1995, 2, 2744-2752.	0.7	43
64	Renormalization of tracer turbulence leading to fractional differential equations. <i>Physical Review E</i> , 2006, 74, 016305.	0.8	43
65	Kinetic theory of resistive ballooning modes. <i>Physics of Fluids</i> , 1985, 28, 1116.	1.4	42
66	A minimal dynamical model of edge localized mode phenomena. <i>Physics of Plasmas</i> , 1995, 2, 3345-3359.	0.7	42
67	Nonlinear Destabilization of Tearing Modes. <i>Physical Review Letters</i> , 1981, 46, 1131-1134.	2.9	41
68	Multi-scale physics mechanisms and spontaneous edge transport bifurcations in fusion plasmas. <i>Europhysics Letters</i> , 2009, 87, 55002.	0.7	41
69	Role of neutrals in the phase transition model. <i>Physics of Plasmas</i> , 1996, 3, 4106-4114.	0.7	35
70	J^* optimization of small aspect ratio stellarator/tokamak hybrid devices. <i>Physics of Plasmas</i> , 1998, 5, 1752-1758.	0.7	34
71	Theory of drift-thermal instability-induced turbulence. <i>Physics of Fluids B</i> , 1992, 4, 102-116.	1.7	33
72	Theory of electric-field curvature effects on long-wavelength drift wave turbulence. <i>Physics of Plasmas</i> , 1994, 1, 1142-1153.	0.7	33

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73	Turbulent heat and particle flux response to electric field shear. <i>Physics of Plasmas</i> , 1998, 5, 173-177.	0.7	33
74	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
75	Variation of edge gradients with heat flux across L-H and H-L transitions in Alcator C-Mod. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, A359-A366.	0.9	30
76	Uphill transport and the probabilistic transport model. <i>Physics of Plasmas</i> , 2004, 11, 3787-3794.	0.7	30
77	Characterization of the frequency ranges of the plasma edge fluctuation spectra. <i>Physics of Plasmas</i> , 1999, 6, 4615-4621.	0.7	29
78	Equilibrium calculations for helical axis stellarators. <i>Physics of Fluids</i> , 1984, 27, 2101.	1.4	28
79	Probabilistic transport models for plasma transport in the presence of critical thresholds: Beyond the diffusive paradigm. <i>Physics of Plasmas</i> , 2005, 12, 056105.	0.7	28
80	Nonlinear interaction of tearing modes: A comparison between the tokamak and the reversed field pinch configurations. <i>Physics of Fluids</i> , 1985, 28, 261-270.	1.4	27
81	Dissipative trapped electron modes in $n=2$ toroidal configurations. <i>Physics of Fluids B</i> , 1992, 4, 2894-2906.	1.7	27
82	Dynamics of L to H bifurcation. <i>Plasma Physics and Controlled Fusion</i> , 1994, 36, A93-A98.	0.9	27
83	Sheared flows and turbulence in fusion plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B303-B311.	0.9	27
84	Low- β instability calculations for three-dimensional stellarator configurations. <i>Physics of Fluids B</i> , 1990, 2, 2162-2167.	1.7	25
85	Modification of tokamak edge turbulence using feedback*. <i>Physics of Plasmas</i> , 1994, 1, 1606-1611.	0.7	25
86	Transport Optimization and MHD Stability of a Small Aspect Ratio Toroidal Hybrid Stellarator. <i>Physical Review Letters</i> , 1998, 80, 528-531.	2.9	25
87	The foundations of diffusion revisited. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B743-B754.	0.9	25
88	Nonlinear evolution of the internal kink mode in toroidal geometry for shaped tokamak plasmas. <i>Physics of Fluids</i> , 1988, 31, 1202.	1.4	24
89	Characterization of Nondiffusive Transport in Plasma Turbulence via a Novel Lagrangian Method. <i>Physical Review Letters</i> , 2008, 101, 165001.	2.9	24
90	Assessment of effects of neutrals on the power threshold for L-H transitions in DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 1998, 40, 717-720.	0.9	23

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91	Fractional Generalization of Fick's Law: A Microscopic Approach. <i>Physical Review Letters</i> , 2007, 99, 230603.	2.9	23
92	Bifurcations and modulational interaction in negative compressibility turbulence. <i>Physics of Plasmas</i> , 1994, 1, 2700-2710.	0.7	22
93	Transition in the Dynamics of a Diffusive Running Sandpile. <i>Physical Review Letters</i> , 2002, 88, 204304.	2.9	20
94	Magnetohydrodynamic stability and nonlinear evolution of the $m=1$ mode in toroidal geometry for safety factor profiles with an inflection point. <i>Physics of Fluids B</i> , 1989, 1, 788-797.	1.7	19
95	Recent results from the ATF torsatron. <i>Physics of Fluids B</i> , 1991, 3, 2261-2269.	1.7	19
96	Filamentary current detection in stellarator plasmas. <i>Review of Scientific Instruments</i> , 2001, 72, 471-474.	0.6	19
97	Stratified shear flows in a model of turbulence-shear flow interaction. <i>Physics of Plasmas</i> , 2002, 9, 118-127.	0.7	19
98	Topological instability along filamented invariant surfaces. <i>Chaos</i> , 2003, 13, 1175-1187.	1.0	19
99	A possible mechanism for confinement power degradation in the TJ-II stellarator. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	19
100	The effect of diamagnetic rotation on the nonlinear coupling of tearing modes. <i>Physics of Fluids</i> , 1984, 27, 909.	1.4	18
101	Tokamak $m=1$ magnetohydrodynamic calculations in toroidal geometry using a full set of nonlinear resistive magnetohydrodynamic equations. <i>Physics of Fluids</i> , 1988, 31, 347.	1.4	18
102	Second stability in the ATF torsatron—Experiment and theory. <i>Physics of Fluids B</i> , 1990, 2, 1353-1358.	1.7	18
103	Shear flow effects on the nonlinear evolution of thermal instabilities. <i>Physics of Fluids B</i> , 1993, 5, 2959-2966.	1.7	18
104	Magnetohydrodynamic calculations with a nonmonotonic q profile and equilibrium, sheared toroidal flow. <i>Physics of Plasmas</i> , 1999, 6, 837-845.	0.7	18
105	A self-organized critical transport model based on critical-gradient fluctuation dynamics. <i>Physics of Plasmas</i> , 2002, 9, 841-848.	0.7	18
106	Spectrum of resistivity-gradient-driven turbulence. <i>Physics of Fluids</i> , 1986, 29, 2501.	1.4	17
107	Transport mechanisms acting in toroidal devices: a theoretician's view. <i>Plasma Physics and Controlled Fusion</i> , 1992, 34, 1825-1836.	0.9	17
108	Mesoscale transport properties induced by near critical resistive pressure-gradient-driven turbulence in toroidal geometry. <i>Physics of Plasmas</i> , 2006, 13, 022310.	0.7	17

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109	Critical transition for the edge shear layer formation: Comparison of model and experiment. Physics of Plasmas, 2006, 13, 122509.	0.7	17
110	On the nature of radial transport across sheared zonal flows in electrostatic ion-temperature-gradient gyrokinetic tokamak plasma turbulence. Physics of Plasmas, 2009, 16, 055905.	0.7	17
111	Quiet-time statistics: A tool to probe the dynamics of self-organized-criticality systems from within the strong overlapping regime. Physical Review E, 2002, 66, 036124.	0.8	16
112	On the nature of transport in near-critical dissipative-trapped-electron-mode turbulence: Effect of a subdominant diffusive channel. Physics of Plasmas, 2008, 15, 112301.	0.7	16
113	Linear and nonlinear properties of infernal modes. Physics of Fluids B, 1990, 2, 1574-1583.	1.7	15
114	Fluctuation and modulation transport studies in the Advanced Toroidal Facility (ATF) torsatron*. Physics of Fluids B, 1993, 5, 2513-2518.	1.7	15
115	Effect of a poloidal shear flow on the probability of accessing the multiple saturated states in the resistive interchange instability. Physics of Fluids B, 1993, 5, 1795-1803.	1.7	15
116	Full torus Landau fluid calculations of ion temperature gradient-driven turbulence in cylindrical geometry. Physics of Plasmas, 2000, 7, 5013-5022.	0.7	15
117	Nonlinear resistive g mode and electron heat conductivity in torsatron/heliotron plasmas. Physics of Fluids, 1985, 28, 2027.	1.4	14
118	Equilibrium, Stability, and Deeply Trapped Energetic Particle Confinement Calculations for $l = 2$ Torsatron/Heliotron Configurations. Fusion Science and Technology, 1991, 19, 217-233.	0.6	14
119	Internal disruptions in Heliotron E*. Physics of Plasmas, 1998, 5, 3700-3707.	0.7	14
120	Spatiotemporal structure of resistive pressure-gradient-driven turbulence. Physics of Plasmas, 1999, 6, 107-115.	0.7	14
121	Local threshold conditions and fast transition dynamics of the H transition in Alcator C-Mod. Plasma Physics and Controlled Fusion, 2004, 46, A95-A104.	0.9	14
122	Radiation-driven turbulence at the plasma edge in toroidal devices. Physics of Plasmas, 1994, 1, 3871-3882.	0.7	13
123	Long-Range Correlations During Plasma Transitions in the TJ Stellarator. Contributions To Plasma Physics, 2010, 50, 507-513.	0.5	13
124	Studies of a Flexible Helic Configuration. Fusion Science and Technology, 1988, 13, 521-535.	0.6	12
125	Effects of magnetic geometry, fluctuations, and electric fields on confinement in the Advanced Toroidal Facility. Physics of Fluids B, 1992, 4, 2104-2110.	1.7	12
126	On the statistical mechanics of self-organized profiles. Physics of Plasmas, 1996, 3, 3745-3753.	0.7	12

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127	A comparison of the full and reduced sets of magnetohydrodynamic equations for resistive tearing modes in cylindrical geometry. <i>Physics of Fluids</i> , 1983, 26, 2569.	1.4	11
128	Fluctuation spectrum of resistive pressureâ€gradientâ€driven turbulence. <i>Physics of Fluids B</i> , 1989, 1, 119-133.	1.7	11
129	Long-range time dependence in the cross-correlation function. <i>Physics of Plasmas</i> , 1999, 6, 485-494.	0.7	11
130	Fluctuation level bursts in a model of internal transport barrier formation. <i>Physics of Plasmas</i> , 1999, 6, 854-862.	0.7	11
131	Reynolds stress and shear flow generation. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, 1377-1395.	0.9	11
132	Dynamical Coupling between Gradients and Transport in Fusion Plasmas. <i>Physical Review Letters</i> , 2012, 108, 065001.	2.9	11
133	Zonal flows and long-distance correlations during the formation of the edge shear layer in the TJ-II stellarator. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 065007.	0.9	10
134	Toroidal field effects on the stability of a Heliotron configuration. <i>Physics of Fluids</i> , 1986, 29, 3356.	1.4	9
135	Alpha destabilization of the TAE mode using a reduced gyrofluid model with Landau closure. <i>Physica Scripta</i> , 1992, 45, 159-162.	1.2	9
136	Linear and nonlinear resistive magnetohydrodynamic stability of tokamak discharges with negative central shear. <i>Physics of Plasmas</i> , 2001, 8, 3358-3366.	0.7	9
137	Avalanche properties in a transport model based on critical-gradient fluctuation dynamics. <i>Physics of Plasmas</i> , 2005, 12, 092305.	0.7	9
138	Topological instability along invariant surfaces and pseudochaotic transport. <i>Physical Review E</i> , 2005, 72, 026227.	0.8	9
139	On the use of critical gradient models in fusion plasma transport studies. <i>Physics of Plasmas</i> , 2006, 13, 062301.	0.7	9
140	The causal relation between turbulent particle flux and density gradient. <i>Physics of Plasmas</i> , 2016, 23, 072307.	0.7	9
141	The effect of an external torque on low to high confinement transitions. <i>Physics of Plasmas</i> , 1995, 2, 3044-3048.	0.7	8
142	Role of rational surfaces on fluctuations and transport in the plasma edge of the TJ-II stellarator. <i>European Physical Journal D</i> , 2000, 50, 1463-1470.	0.4	8
143	Quasicoherent fluctuations associated with a transport barrier in the sandpile model. <i>Physics of Plasmas</i> , 2001, 8, 3277-3281.	0.7	8
144	Influence of $\hat{\Gamma}^2$ on the self-similarity properties of LHD edge fluctuations. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 095010.	0.9	8

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145	Effect of fast electrons on the stability of resistive interchange modes in the TJ-II stellarator. <i>Physics of Plasmas</i> , 2016, 23, 062319.	0.7	8
146	Intermittence and turbulence in fusion devices. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 025011.	0.9	8
147	Advanced Toroidal Facility II Studies. <i>Fusion Science and Technology</i> , 1990, 17, 188-205.	0.6	7
148	Resistive pressure gradient-driven turbulence at stellarator plasma edge. <i>Physics of Plasmas</i> , 1997, 4, 3282-3292.	0.7	7
149	Avalanche structure in a running sandpile model. <i>Physical Review E</i> , 2002, 66, 011302.	0.8	7
150	Resistive pressure-gradient-driven instabilities in the transition regime to fully developed turbulence. <i>Physics of Plasmas</i> , 2002, 9, 47-54.	0.7	7
151	High confinement modes with radial structure. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, A105-A112.	0.9	7
152	Continuous time random walks in periodic systems: fluid limit and fractional differential equations on the circle. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13511-13522.	0.7	7
153	Stability Properties of the URAGAN-2M Torsatron. <i>Fusion Science and Technology</i> , 1993, 23, 71-78.	0.6	6
154	Effect of poloidally asymmetric sheared flow on resistive ballooning turbulence. <i>Physics of Plasmas</i> , 1999, 6, 3910-3917.	0.7	6
155	Pseudochaotic poloidal transport in the laminar regime of the resistive ballooning instabilities. <i>Physics of Plasmas</i> , 2008, 15, 042302.	0.7	6
156	Comment on "The Hurst exponent and long-time correlation" [Phys. Plasmas 7, 1181 (2000)]. <i>Physics of Plasmas</i> , 2000, 7, 5267-5268.	0.7	5
157	Applicability of transfer entropy for the calculation of effective diffusivity in heat transport. <i>Physics of Plasmas</i> , 2018, 25, 102304.	0.7	5
158	Diagnostic needs for fluctuation and transport studies (invited). <i>Review of Scientific Instruments</i> , 1992, 63, 4589-4594.	0.6	4
159	Comment on "Critique of atomic physics instability mechanisms: Ionization-driven and radiative microinstabilities in the tokamak edge plasma" [Phys. Plasmas 1, 2630 (1994)]. <i>Physics of Plasmas</i> , 1994, 1, 2806-2807.	0.7	4
160	The effect of compressibility on magnetohydrodynamic instabilities in toroidal tokamak geometry. <i>Physics of Fluids B</i> , 1990, 2, 539-546.	1.7	3
161	Determination of long-range correlations by quiet-time statistics. <i>Physics of Plasmas</i> , 2005, 12, 052304.	0.7	3
162	Topological characterization of flow structures in resistive pressure-gradient-driven turbulence. <i>Physical Review E</i> , 2008, 78, 066402.	0.8	3

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163	Topological characterization of the transition from laminar regime to fully developed turbulence in the resistive pressure-gradient-driven turbulence model. <i>Physical Review E</i> , 2009, 80, 046410.	0.8	3
164	Causality, intermittence, and crossphase evolution during confinement transitions in the TJ-II stellarator. <i>Physics of Plasmas</i> , 2021, 28, 092302.	0.7	3
165	Emergence and decay rate of the edge plasma flow shear near a critical transition. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 015003.	0.9	2
166	Tracer particle trapping times in pressure-gradient-driven turbulence in toroidal geometry and their connection to the dynamics of large-scale cycles. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 105005.	0.9	2
167	Causal impact of magnetic fluctuations in slow and fast $L\ddot{H}$ transitions at TJ-II. <i>Physics of Plasmas</i> , 2016, 23, 072305.	0.7	2
168	Identification and characterization of topological structures of turbulence in magnetic confined plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 115013.	0.9	2
169	The impact of radial electric fields and plasma rotation on intermittence in TJ-II. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 055006.	0.9	2
170	Dynamics of a one-dimensional model for the emergence of the plasma edge shear flow layer with momentum-conserving Reynolds stress. <i>Physics of Plasmas</i> , 2007, 14, 102507.	0.7	1
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