

# Roscoe B White

## List of Publications by Year in descending order

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270  
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274  
docs citations

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times ranked

3185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulent Transport Reduction by Zonal Flows: Massively Parallel Simulations. , 1998, 281, 1835-1837.		870
2	Excitation of Internal Kink Modes by Trapped Energetic Beam Ions. Physical Review Letters, 1984, 52, 1122-1125.	7.8	478
3	Hamiltonian guiding center drift orbit calculation for plasmas of arbitrary cross section. Physics of Fluids, 1984, 27, 2455.	1.4	443
4	Raman and Brillouin scattering of electromagnetic waves in inhomogeneous plasmas. Physics of Fluids, 1974, 17, 1211.	1.4	385
5	Saturation of the tearing mode. Physics of Fluids, 1977, 20, 800.	1.4	345
6	Confinement of High-Energy Trapped Particles in Tokamaks. Physical Review Letters, 1981, 47, 647-649.	7.8	272
7	Excitation of zonal flow by drift waves in toroidal plasmas. Physics of Plasmas, 2000, 7, 3129-3132.	1.9	271
8	Calculation of Turbulent Diffusion for the Chirikov-Taylor Model. Physical Review Letters, 1980, 44, 1586-1589.	7.8	247
9	Fourier-space paths applied to the calculation of diffusion for the Chirikov-Taylor model. Physical Review A, 1981, 23, 2664-2672.	2.5	177
10	The KSTAR project: An advanced steady state superconducting tokamak experiment. Nuclear Fusion, 2000, 40, 575-582.	3.5	168
11	Amplification and absorption of electromagnetic waves in overdense plasmas. Plasma Physics, 1974, 16, 565-587.	0.9	165
12	Physics of the compact advanced stellarator NCSX. Plasma Physics and Controlled Fusion, 2001, 43, A237-A249.	2.1	161
13	Theory of mode-induced beam particle loss in tokamaks. Physics of Fluids, 1983, 26, 2958.	1.4	158
14	On resonant heating below the cyclotron frequency. Physics of Plasmas, 2001, 8, 4713-4716.	1.9	150
15	Reconnection rates of magnetic fields including the effects of viscosity. Physics of Fluids, 1984, 27, 137.	1.4	149
16	Alpha particle losses from toroidicity-induced Alfvén eigenmodes. Part II: Monte Carlo simulations and anomalous alpha loss processes. Physics of Fluids B, 1992, 4, 1506-1516.	1.7	147
17	Numerical studies of nonlinear evolution of kink modes in tokamaks. Physics of Fluids, 1976, 19, 1987.	1.4	131
18	Temporal Evolution of a Three-Wave Parametric Instability. Physical Review Letters, 1973, 31, 1190-1193.	7.8	125

#	ARTICLE	IF	CITATIONS
19	Alpha-Particle-Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor. Physical Review Letters, 1997, 78, 2976-2979.	7.8	118
20	Three-dimensional hybrid gyrokinetic-magnetohydrodynamics simulation. Physics of Fluids B, 1992, 4, 2033-2037.	1.7	115
21	Calculation of the Kolmogorov Entropy for Motion Along a Stochastic Magnetic Field. Physical Review Letters, 1979, 42, 1247-1250.	7.8	107
22	Overview of quasi-single helicity experiments in reversed field pinches. Nuclear Fusion, 2003, 43, 1855-1862.	3.5	102
23	Anomalous Flattening of the Fast-Ion Profile during Alfvén-Eigenmode Activity. Physical Review Letters, 2007, 99, 245002.	7.8	99
24	Ion Acoustic Waves in a Multi-Ion Plasma. Physics of Fluids, 1971, 14, 2388.	1.4	93
25	Simulation of Large Magnetic Islands: A Possible Mechanism for a Major Tokamak Disruption. Physical Review Letters, 1977, 39, 1618-1621.	7.8	92
26	Canonical Hamiltonian guiding center variables. Physics of Fluids B, 1990, 2, 845-847.	1.7	92
27	Trapped particle destabilization of the internal kink mode. Physics of Fluids, 1985, 28, 278-286.	1.4	91
28	Sawtooth Stabilization by Energetic Trapped Particles. Physical Review Letters, 1988, 60, 2038-2041.	7.8	91
29	Fusion plasma experiments on TFTR: A 20 year retrospective. Physics of Plasmas, 1998, 5, 1577-1589.	1.9	91
30	Measurements and modeling of Alfvén eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. Physics of Plasmas, 2011, 18, .	1.9	90
31	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	1.9	89
32	High- $\beta^2$ , Sawtooth-Free Tokamak Operation Using Energetic Trapped Particles. Physical Review Letters, 1989, 62, 539-542.	7.8	87
33	Toroidal Alfvén eigenmode-induced ripple trapping. Physics of Plasmas, 1995, 2, 2871-2873.	1.9	87
34	Anomalous thermal confinement in ohmically heated tokamaks. Nuclear Fusion, 1986, 26, 1515-1528.	3.5	85
35	Resistive reconnection. Reviews of Modern Physics, 1986, 58, 183-207.	45.6	79
36	Energetic particle instabilities in fusion plasmas. Nuclear Fusion, 2013, 53, 104022.	3.5	79

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37	Observation of Critical-Gradient Behavior in Alfvén-Eigenmode-Induced Fast-Ion Transport. <i>Physical Review Letters</i> , 2016, 116, 095001.	7.8	78
38	Gyrokinetic simulations in general geometry and applications to collisional damping of zonal flows. <i>Physics of Plasmas</i> , 2000, 7, 1857-1862.	1.9	77
39	Instability of ring current protons beyond the plasmopause during injection events. <i>Journal of Geophysical Research</i> , 1972, 77, 6243-6248.	3.3	76
40	Resonant plasma heating below the cyclotron frequency. <i>Physics of Plasmas</i> , 2002, 9, 1890-1897.	1.9	76
41	Electron Plasma Waves and Free-Streaming Electron Bursts. <i>Physics of Fluids</i> , 1971, 14, 1997.	1.4	75
42	Symbolic Analysis of Chaotic Signals and Turbulent Fluctuations. <i>Physical Review Letters</i> , 1997, 78, 54-57.	7.8	75
43	Self-similarity and transport in the standard map. <i>Physical Review E</i> , 1997, 55, 4909-4917.	2.1	72
44	Non-linear zonal dynamics of drift and drift-Alfvén turbulence in tokamak plasmas. <i>Nuclear Fusion</i> , 2001, 41, 747-753.	3.5	72
45	Parametric Scattering Instabilities in Inhomogeneous Plasmas. <i>Physical Review Letters</i> , 1973, 31, 697-700.	7.8	71
46	Effect of noise on the standard mapping. <i>Physica D: Nonlinear Phenomena</i> , 1982, 4, 425-438.	2.8	69
47	Particle distribution modification by low amplitude modes. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 045012.	2.1	69
48	Drift Hamiltonian in magnetic coordinates. <i>Physics of Fluids</i> , 1982, 25, 575.	1.4	68
49	A reduced fast ion transport model for the tokamak transport code TRANSP. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 055003.	2.1	66
50	Alpha particle confinement in tokamaks. <i>Physics of Fluids B</i> , 1989, 1, 980-982.	1.7	61
51	Simulations of beam ion transport during tearing modes in the DIII-D tokamak. <i>Nuclear Fusion</i> , 2002, 42, 853-862.	3.5	61
52	Absolute parametric instabilities in inhomogeneous plasmas. <i>Nuclear Fusion</i> , 1974, 14, 45-51.	3.5	60
53	Theory of dissipative drift instabilities in sheared magnetic fields. <i>Nuclear Fusion</i> , 1979, 19, 373-387.	3.5	60
54	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). <i>Nuclear Fusion</i> , 2005, 45, S168-S180.	3.5	60

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55	Transport Barrier inside the Reversal Surface in the Chaotic Regime of the Reversed-Field Pinch. <i>Physical Review Letters</i> , 2006, 96, 025001.	7.8	60
56	Beam distribution modification by Alfvén modes. <i>Physics of Plasmas</i> , 2010, 17, 056107.	1.9	60
57	Modeling fast-ion transport during toroidal Alfvén eigenmode avalanches in National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, 122505.	1.9	59
58	Modification of particle distributions by MHD instabilities I. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 2200-2214.	3.3	59
59	Ion Heating by Fast-Particle-Induced Alfvén Turbulence. <i>Physical Review Letters</i> , 2001, 87, 205003.	7.8	58
60	Wave driven fast ion loss in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 2852-2862.	1.9	58
61	Physics design of a high-beta quasi-axisymmetric stellarator. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, B273-B283.	2.1	56
62	Bounce precession fishbones in the national spherical torus experiment. <i>Nuclear Fusion</i> , 2003, 43, 1258-1264.	3.5	56
63	Ignited spherical tokamaks and plasma regimes with LiWalls. <i>Fusion Engineering and Design</i> , 2004, 72, 149-168.	1.9	55
64	Theory and observations of high frequency Alfvén eigenmodes in low aspect ratio plasmas. <i>Nuclear Fusion</i> , 2003, 43, 228-233.	3.5	53
65	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. <i>Nuclear Fusion</i> , 2013, 53, 104007.	3.5	53
66	Zonal-Flow Dynamics and Size Scaling of Anomalous Transport. <i>Physical Review Letters</i> , 2004, 92, 075004.	7.8	52
67	Nonlinear paradigm for drift wave-zonal flow interplay: Coherence, chaos, and turbulence. <i>Physics of Plasmas</i> , 2004, 11, 2488-2496.	1.9	52
68	Nonlinear drift tearing modes. <i>Physics of Fluids</i> , 1980, 23, 366.	1.4	51
69	Nonlinear Schrödinger-Equation Model of the Oscillating Two-Stream Instability. <i>Physical Review Letters</i> , 1974, 32, 457-460.	7.8	49
70	Generation of plasma rotation in a tokamak by ion-cyclotron absorption of fast Alfvén waves. <i>Physics of Plasmas</i> , 2001, 8, 2181-2187.	1.9	49
71	Non-linear saturation of the internal kink mode. <i>Nuclear Fusion</i> , 1980, 20, 1181-1185.	3.5	48
72	Recent advances in the design of quasisymmetric stellarator plasma configurations. <i>Physics of Plasmas</i> , 2001, 8, 2083-2094.	1.9	46

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73	Study of stochastic toroidal field ripple losses of charged fusion products at the midplane of TFTR. Nuclear Fusion, 1993, 33, 449-465.	3.5	45
74	Theory of Universal Eigenmodes in a Sheared Magnetic Field. Physical Review Letters, 1978, 41, 649-653.	7.8	44
75	MHD induced alpha particle loss in TFTR. Nuclear Fusion, 1999, 39, 1097-1109.	3.5	44
76	Influence of an energetic ion population on tokamak plasma stability. Physics of Fluids B, 1990, 2, 745-753.	1.7	43
77	Ripple-induced energetic particle loss in tokamaks. Physics of Plasmas, 1996, 3, 3043-3054.	1.9	43
78	Observations of neutral beam and ICRF tail ion losses due to Alfvén modes in TFTR. Nuclear Fusion, 1997, 37, 939-954.	3.5	43
79	Generation of plasma rotation by ion cyclotron resonance heating in tokamaks. Physics of Plasmas, 1999, 6, 1969-1977.	1.9	43
80	Overview of RFX-mod results. Nuclear Fusion, 2009, 49, 104019.	3.5	43
81	Impurity effects on ion-drift-wave eigenmodes in a sheared magnetic field. Physics of Fluids, 1980, 23, 167.	1.4	42
82	Effective diffusion and nonlocal heat transport in a stochastic magnetic field. Physical Review Letters, 1992, 68, 1523-1526.	7.8	42
83	Collisional stochastic ripple diffusion of alpha particles and beam ions on TFTR. Nuclear Fusion, 1995, 35, 1191-1211.	3.5	42
84	Compressional Alfvén eigenmode instability in NSTX. Nuclear Fusion, 2002, 42, 977-985.	3.5	42
85	Mechanisms of energetic-particle transport in magnetically confined plasmas. Physics of Plasmas, 2020, 27, .	1.9	42
86	Overview of DT results from TFTR. Nuclear Fusion, 1995, 35, 1429-1436.	3.5	41
87	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
88	Computation of Alfvén eigenmode stability and saturation through a reduced fast ion transport model in the TRANSP tokamak transport code. Plasma Physics and Controlled Fusion, 2017, 59, 095008.	2.1	41
89	An interactive code for solving differential equations, using phase integral methods. Journal of Computational Physics, 1979, 31, 409-424.	3.8	40
90	Effect of sawtooth oscillations on energetic ions. Nuclear Fusion, 2000, 40, 1325-1341.	3.5	40

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91	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
92	Particle Diffusion in Tokamaks with Partially Destroyed Magnetic Surfaces. Physical Review Letters, 1982, 49, 786-789.	7.8	39
93	Modelling TF ripple loss of alpha particles in TFTR DT experiments. Nuclear Fusion, 1995, 35, 1509-1516.	3.5	38
94	Particle-Transport Analysis in Reversed Field Pinch Helical States. Physical Review Letters, 2004, 93, 145001.	7.8	38
95	Structure of Ion Acoustic Solitons and Shock Waves in a Two-Component Plasma. Physics of Fluids, 1972, 15, 1484.	1.4	37
96	Nonlocal neoclassical transport in tokamak and spherical torus experiments. Physics of Plasmas, 2006, 13, 082501.	1.9	37
97	Fast-ion transport by Alfvén eigenmodes above a critical gradient threshold. Physics of Plasmas, 2017, 24, .	1.9	37
98	Sawtooth stabilization by localized electron cyclotron heating in a tokamak plasma. Physical Review Letters, 1991, 66, 1974-1977.	7.8	35
99	TFTR DT experiments. Plasma Physics and Controlled Fusion, 1997, 39, B103-B114.	2.1	35
100	Collisional $\hat{r}$ method. Physics of Plasmas, 1997, 4, 3591-3598.	1.9	35
101	Thermal island destabilization and the Greenwald limit. Physics of Plasmas, 2015, 22, .	1.9	35
102	Energetic particle orbits in the National Spherical Tokamak Experiment. Physics of Plasmas, 1997, 4, 3667-3675.	1.9	34
103	Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas. Physics of Plasmas, 1998, 5, 1703-1711.	1.9	33
104	Role of Alfvén instabilities in energetic ion transport. Physics of Plasmas, 1999, 6, 1880-1884.	1.9	33
105	Effect of plasma shaping on performance in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 056122.	1.9	33
106	Excitation of Alfvén eigenmodes by low energy beam ions in the DIII-D and JET tokamaks. Physics of Plasmas, 2008, 15, 056107.	1.9	33
107	Rapid guiding center calculations. Physics of Plasmas, 1995, 2, 2915-2919.	1.9	32
108	Near threshold anomalous transport in the standard map. Chaos, 1998, 8, 757-767.	2.5	32

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109	Physics of compact stellarators. <i>Physics of Plasmas</i> , 1999, 6, 1858-1864.	1.9	32
110	Nonlocal transport in the reversed field pinch. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124026.	2.1	32
111	Parametric Decay of Obliquely Incident Radiation. <i>Physical Review Letters</i> , 1973, 31, 520-523.	7.8	30
112	Hamiltonian guiding center equations in toroidal magnetic configurations. <i>Physics of Plasmas</i> , 2003, 10, 573-576.	1.9	30
113	Observations of Multiple Magnetic Islands in the Core of a Reversed Field Pinch. <i>Physical Review Letters</i> , 2004, 92, 125001.	7.8	30
114	Anomalous losses of deuteriumâ€“deuterium fusion products in the Tokamak Fusion Test Reactor*. <i>Physics of Plasmas</i> , 1994, 1, 1469-1478.	1.9	29
115	The toroidicity-induced AlfvÃ©n eigenmode structure in DIII-D: Implications of soft x-ray and beam-ion loss data. <i>Physics of Plasmas</i> , 2001, 8, 3391-3401.	1.9	28
116	Alpha particle effects on the internal kink and fishbone modes. <i>Physics of Plasmas</i> , 1994, 1, 3369-3377.	1.9	27
117	Deuteriumâ€“tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
118	Overview of the RFX-mod fusion science activity. <i>Nuclear Fusion</i> , 2017, 57, 102012.	3.5	27
119	Nonlinear interaction of energetic ring current protons with magnetospheric hydromagnetic waves. <i>Geophysical Research Letters</i> , 1989, 16, 1133-1136.	4.0	26
120	Modeâ€“particle resonances during nearâ€“tangential neutral beam injection in the Tokamak Fusion Test Reactor. <i>Physics of Fluids B</i> , 1990, 2, 1584-1588.	1.7	26
121	First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR Deuterium-Tritium Experiments. <i>Physical Review Letters</i> , 1996, 76, 1071-1074.	7.8	26
122	Global Î¶ particle simulation of neoclassical transport and ambipolar electric field in general geometry. <i>Computer Physics Communications</i> , 2004, 164, 178-182.	7.5	26
123	Numerical verification of Orbit and Nemato codes for magnetic topology diagnosis. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	26
124	Alpha particle losses from Tokamak Fusion Test Reactor deuteriumâ€“tritium plasmas. <i>Physics of Plasmas</i> , 1996, 3, 1875-1880.	1.9	25
125	Numerical study of the nonlinear evolution of toroidicity-induced AlfvÃ©n eigenmodes. <i>Physics of Plasmas</i> , 1999, 6, 226-237.	1.9	25
126	The combined effect of EPMs and TAEs on energetic ion confinement and sawtooth stabilization. <i>Nuclear Fusion</i> , 2001, 41, 513-518.	3.5	25



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127	Turbulence in electrostatic ion-acoustic shocks. <i>Physics of Fluids</i> , 1973, 16, 2304.	1.4	24
128	Measurement of current penetration during PDX discharge startup. <i>Nuclear Fusion</i> , 1985, 25, 321-333.	3.5	24
129	Symbolic kinetic equation for a chaotic attractor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 419-424.	2.1	24
130	Saturation of alpha particle driven instability in Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 629-632.	1.9	24
131	Improved Particle Confinement in Transition from Multiple-Helicity to Quasi-Single-Helicity Regimes of a Reversed-Field Pinch. <i>Physical Review Letters</i> , 2006, 97, 175001.	7.8	24
132	Numerical studies of transport mechanisms in RFX-mod low magnetic chaos regimes. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 065010.	2.1	24
133	Magnetic driving energy of the collisional tearing modes. <i>Physics of Fluids</i> , 1980, 23, 1375.	1.4	23
134	Nonlinear evolution of the alpha particle driven toroidicity induced Alfvén eigenmode. <i>Physics of Plasmas</i> , 1995, 2, 4555-4562.	1.9	23
135	Measurements of DT alpha particle loss near the outer midplane of TFTR. <i>Nuclear Fusion</i> , 1995, 35, 1445-1455.	3.5	23
136	Alpha-particle physics in the tokamak fusion test reactor DT experiment. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A275-A283.	2.1	23
137	Theory of resonance influence of sawtooth crashes on ions with large orbit width. <i>Physics of Plasmas</i> , 1998, 5, 2963-2976.	1.9	23
138	Symbolic kinetic analysis of two-dimensional maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 158, 51-56.	2.1	22
139	Collisionless transport in a stochastic magnetic field. <i>Plasma Physics and Controlled Fusion</i> , 1993, 35, 595-599.	2.1	22
140	Self-consistent study of the alpha particle driven toroidicity induced Alfvén eigenmode. <i>Physics of Plasmas</i> , 1994, 1, 2733-2740.	1.9	22
141	Recent D-T results on TFTR. <i>Plasma Physics and Controlled Fusion</i> , 1995, 37, A69-A85.	2.1	22
142	Representation of ideal magnetohydrodynamic modes. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	22
143	Simulations of alpha particle ripple loss from the International Thermonuclear Experimental Reactor. <i>Physics of Plasmas</i> , 1996, 3, 3037-3042.	1.9	21
144	Effective temperatures, sawtooth mixing, and stochastic diffusion ripple loss of fast H+ minority ions driven by ion cyclotron heating in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 2430-2436.	1.9	21

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145	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	3.5	21
146	Simulation of $\hat{I}_{\pm}$ -particle redistribution due to sawteeth on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1103-1109.	1.9	20
147	Neoclassical Transport in the Helical Reversed-Field Pinch. Physical Review Letters, 2010, 105, 195006.	7.8	20
148	Alfvén wave cyclotron resonance heating. Physics of Fluids, 1982, 25, 384.	1.4	19
149	Nonlinear self-sustainment of magnetic islands. Physics of Fluids B, 1989, 1, 977-979.	1.7	19
150	Chaos generated pinch effect in toroidal confinement devices. Physics of Plasmas, 2007, 14, 102310.	1.9	19
151	Nonlinear Mode Coupling and Relaxation Oscillations. Physical Review Letters, 1972, 29, 1315-1318.	7.8	18
152	Overview of the RFX-mod contribution to the international Fusion Science Program. Nuclear Fusion, 2015, 55, 104012.	3.5	18
153	Precession of toroidally passing particles in tokamaks and spherical tori. Physics of Plasmas, 2003, 10, 1449-1457.	1.9	17
154	Progress towards steady state on NSTX. Nuclear Fusion, 2006, 46, S22-S28.	3.5	17
155	Modification of particle distributions by magnetohydrodynamic instabilities II. Plasma Physics and Controlled Fusion, 2011, 53, 085018.	2.1	17
156	Overview of the RFX-mod fusion science programme. Nuclear Fusion, 2013, 53, 104018.	3.5	17
157	Edge ambipolar potential in toroidal fusion plasmas. Physics of Plasmas, 2014, 21, .	1.9	17
158	Multispecies transport theory for axisymmetric rotating plasmas. Physics of Fluids B, 1992, 4, 859-871.	1.7	16
159	Alpha-driven magnetohydrodynamics (MHD) and MHD-induced alpha loss in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1610-1616.	1.9	16
160	Confined trapped alpha behaviour in TFTR deuterium-tritium plasmas. Nuclear Fusion, 1998, 38, 1283-1302.	3.5	16
161	Destabilization of fast magnetoacoustic waves by circulating energetic ions in toroidal plasmas. Physics of Plasmas, 2003, 10, 4771-4775.	1.9	16
162	Edge topology and flows in the reversed-field pinch. Nuclear Fusion, 2012, 52, 054015.	3.5	16

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163	A predictive model for the tokamak density limit. Nuclear Fusion, 2016, 56, 106001.	3.5	16
164	Calculation of prompt loss and toroidal field ripple loss under neutral beam injection on EAST. Plasma Physics and Controlled Fusion, 2017, 59, 025004.	2.1	16
165	Chaos in trapped particle orbits. Physical Review E, 1998, 58, 1774-1779.	2.1	15
166	The tokamak density limit: A thermo-resistive disruption mechanism. Physics of Plasmas, 2015, 22, 060701.	1.9	15
167	Effects of energetic particle phase space modifications by instabilities on integrated modeling. Nuclear Fusion, 2016, 56, 112005.	3.5	15
168	MeV ion confinement in the TFTR tokamak. Physics of Fluids B, 1990, 2, 1411-1414.	1.7	14
169	Stability of internal kink modes with energetic trapped particles. Nuclear Fusion, 1991, 31, 631-646.	3.5	14
170	Non-linear analysis of the toroidicity induced Alfvén eigenmode. Nuclear Fusion, 1995, 35, 1707-1712.	3.5	14
171	Overview of results in the MST reversed field pinch experiment. Nuclear Fusion, 2005, 45, S276-S282.	3.5	14
172	Ion and electron local transport inside single helicity islands in the reversed field pinch. Physics of Plasmas, 2007, 14, 072305.	1.9	14
173	Effects of $q(r)$ on the alpha particle ripple loss in TFTR. Nuclear Fusion, 1998, 38, 739-760.	3.5	13
174	Anomalous Beam-Ion Loss in TFTR Reversed Magnetic Shear Plasmas. Physical Review Letters, 1999, 82, 924-927.	7.8	13
175	Low frequency fishbone mode induced by circulating particles in spherical tori. Physics of Plasmas, 2001, 8, 3143-3145.	1.9	13
176	Perturbative study of energetic particle redistribution by Alfvén eigenmodes in ITER. Plasma Physics and Controlled Fusion, 2013, 55, 015007.	2.1	13
177	Thermo-resistive disruptions and the tokamak density limit. Physics of Plasmas, 2016, 23, 056113.	1.9	13
178	Resonances between high energy particles and ideal magnetohydrodynamic modes in tokamaks. Physics of Plasmas, 2018, 25, .	1.9	13
179	Nonlocal transport in toroidal plasma devices. Nuclear Fusion, 2019, 59, 016019.	3.5	13
180	Quasi-helical magnetohydrodynamic equilibria in the presence of flow. Physics of Plasmas, 1996, 3, 2653-2663.	1.9	12

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181	Mechanisms of stochastic diffusion of energetic ions in spherical tori. <i>Physics of Plasmas</i> , 2002, 9, 2639-2654.	1.9	12
182	Maintaining the quasi-steady state central current density profile in hybrid discharges. <i>Nuclear Fusion</i> , 2007, 47, 434-442.	3.5	12
183	Reduced energetic particle transport models enable comprehensive time-dependent tokamak simulations. <i>Nuclear Fusion</i> , 2019, 59, 106013.	3.5	12
184	Particle resonances in toroidal fusion devices. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
185	Formation of ion-acoustic shocks. <i>Physics of Fluids</i> , 1974, 17, 211.	1.4	11
186	Unstable Drift Waves in a Sheared Magnetic Field. <i>Physical Review Letters</i> , 1979, 43, 347-350.	7.8	11
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188	Energetic particle transport and alpha driven instabilities in advanced confinement DT plasmas on TFTR. <i>Nuclear Fusion</i> , 1999, 39, 1309-1319.	3.5	11
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