

Roscoe B White

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4425606/publications.pdf>

Version: 2024-02-01

270
papers

12,426
citations

23567

58
h-index

39675

94
g-index

274
all docs

274
docs citations

274
times ranked

3185
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a reduced model for energetic particle transport by sawteeth in tokamaks. Plasma Physics and Controlled Fusion, 2022, 64, 025002.	2.1	7
2	Simulating energetic particle losses in JET plasmas with a reverse integration biasing scheme. Nuclear Fusion, 2022, 62, 026026.	3.5	3
3	Poor confinement in stellarators at high energy. Physics of Plasmas, 2022, 29, .	1.9	7
4	Alpha particle channeling in ITER. Physics of Plasmas, 2021, 28, .	1.9	10
5	Numerical investigation of alpha particle confinement under the perturbation of neoclassical tearing modes and toroidal field ripple in CFETR. Nuclear Fusion, 2021, 61, 046035.	3.5	4
6	Particle resonances in toroidal fusion devices. Physics of Plasmas, 2021, 28, .	1.9	12
7	On the Effect of Beating during Nonlinear Frequency Chirping. Plasma and Fusion Research, 2021, 16, 1403087-1403087.	0.7	9
8	Particle resonances in stellarators. Physics of Plasmas, 2021, 28, .	1.9	5
9	Phase-space dynamics of Alfvén mode chirping. Physics of Plasmas, 2020, 27, 052108.	1.9	7
10	Mechanisms of energetic-particle transport in magnetically confined plasmas. Physics of Plasmas, 2020, 27, .	1.9	42
11	Simulation of Alfvénic avalanche onset in NSTX. Physics of Plasmas, 2020, 27, 022117.	1.9	8
12	Modeling of the beam excited fishbone mode in EAST. Nuclear Fusion, 2019, 59, 076040.	3.5	7
13	Verification and application of resonance broadened quasi-linear (RBQ) model with multiple Alfvénic instabilities. Physics of Plasmas, 2019, 26, 072507.	1.9	7
14	Reduced energetic particle transport models enable comprehensive time-dependent tokamak simulations. Nuclear Fusion, 2019, 59, 106013.	3.5	12
15	Modeling of chirping toroidal Alfvén eigenmodes in NSTX. Physics of Plasmas, 2019, 26, 092103.	1.9	8
16	A simple model for perturbative kinetic particle resonances in tokamaks. Physics of Plasmas, 2019, 26, .	1.9	2
17	Collisional enhancement of energetic particle Alfvénic resonance width in tokamaks. Physics of Plasmas, 2019, 26, 032508.	1.9	8
18	Finite Larmor radius effects at the high confinement mode pedestal and the related force-free steady state. Physics of Plasmas, 2019, 26, 040701.	1.9	0

#	ARTICLE	IF	CITATIONS
19	Collisional resonance function in discrete-resonance quasilinear plasma systems. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	10
20	Nonlocal transport in toroidal plasma devices. <i>Nuclear Fusion</i> , 2019, 59, 016019.	3.5	13
21	Centrifugal particle confinement in mirror geometry. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	11
22	Response to "Comment on "Equilibrium potential well due to finite Larmor radius effects at the tokamak edge" [Phys. Plasmas 25, 054701 (2018)]. <i>Physics of Plasmas</i> , 2018, 25, 054702.	1.9	2
23	Resonances between high energy particles and ideal magnetohydrodynamic modes in tokamaks. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	13
24	Nonlinear simulations of thermo-resistive tearing mode formalism of the density limit. <i>Nuclear Fusion</i> , 2018, 58, 106024.	3.5	7
25	Calculation of prompt loss and toroidal field ripple loss under neutral beam injection on EAST. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 025004.	2.1	16
26	Fast-ion transport by Alfvén eigenmodes above a critical gradient threshold. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	37
27	The build-up of energetic electrons triggering electron cyclotron emission bursts due to a magnetohydrodynamic mode at the edge of tokamaks. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
28	Equilibrium potential well due to finite Larmor radius effects at the tokamak edge. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	7
29	Computation of Alfvén eigenmode stability and saturation through a reduced fast ion transport model in the TRANSP tokamak transport code. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 095008.	2.1	41
30	Toroidal coupling in the kinetic response to edge magnetic perturbations. <i>Nuclear Fusion</i> , 2017, 57, 126055.	3.5	4
31	Overview of the RFX-mod fusion science activity. <i>Nuclear Fusion</i> , 2017, 57, 102012.	3.5	27
32	Effects of energetic particle phase space modifications by instabilities on integrated modeling. <i>Nuclear Fusion</i> , 2016, 56, 112005.	3.5	15
33	Validating predictive models for fast ion profile relaxation in burning plasmas. <i>Nuclear Fusion</i> , 2016, 56, 112015.	3.5	10
34	Thermo-resistive disruptions and the tokamak density limit. <i>Physics of Plasmas</i> , 2016, 23, 056113.	1.9	13
35	A predictive model for the tokamak density limit. <i>Nuclear Fusion</i> , 2016, 56, 106001.	3.5	16
36	Observation of Critical-Gradient Behavior in Alfvén-Eigenmode-Induced Fast-Ion Transport. <i>Physical Review Letters</i> , 2016, 116, 095001.	7.8	78

#	ARTICLE	IF	CITATIONS
37	Saturation of Alfvén modes in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 115007.	2.1	9
38	Phase space effects on fast ion distribution function modeling in tokamaks. Physics of Plasmas, 2016, 23, 056106.	1.9	7
39	Nonlinear asymmetric tearing mode evolution in cylindrical geometry. Physics of Plasmas, 2016, 23, .	1.9	4
40	Collisional dependence of Alfvén mode saturation in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 125006.	2.1	8
41	Helical modulation of the electrostatic plasma potential due to edge magnetic islands induced by resonant magnetic perturbation fields at TEXTOR. Physics of Plasmas, 2015, 22, .	1.9	11
42	The tokamak density limit: A thermo-resistive disruption mechanism. Physics of Plasmas, 2015, 22, 060701.	1.9	15
43	Local wave particle resonant interaction causing energetic particle prompt loss in DIII-D plasmas. Nuclear Fusion, 2015, 55, 122002.	3.5	9
44	Thermal island destabilization and the Greenwald limit. Physics of Plasmas, 2015, 22, .	1.9	35
45	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	3.5	21
46	Overview of the RFX-mod contribution to the international Fusion Science Program. Nuclear Fusion, 2015, 55, 104012.	3.5	18
47	Determination of broken KAM surfaces for particle orbits in toroidal confinement systems. Plasma Physics and Controlled Fusion, 2015, 57, 115008.	2.1	10
48	Plasma edge transport with magnetic islands—a comparison between tokamak and reversed-field pinch. Nuclear Fusion, 2014, 54, 064008.	3.5	6
49	Edge ambipolar potential in toroidal fusion plasmas. Physics of Plasmas, 2014, 21, .	1.9	17
50	A reduced fast ion transport model for the tokamak transport code TRANSP. Plasma Physics and Controlled Fusion, 2014, 56, 055003.	2.1	66
51	Perturbative study of energetic particle redistribution by Alfvén eigenmodes in ITER. Plasma Physics and Controlled Fusion, 2013, 55, 015007.	2.1	13
52	Numerical verification of Orbit and Nemato codes for magnetic topology diagnosis. Physics of Plasmas, 2013, 20, .	1.9	26
53	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. Nuclear Fusion, 2013, 53, 104007.	3.5	53
54	Properties of Alfvén eigenmodes in the Toroidal Alfvén Eigenmode range on the National Spherical Torus Experiment-Upgrade. Physics of Plasmas, 2013, 20, .	1.9	5

#	ARTICLE	IF	CITATIONS
55	Guiding center equations for ideal magnetohydrodynamic modes. <i>Physics of Plasmas</i> , 2013, 20, 042116.	1.9	7
56	Overview of the RFX-mod fusion science programme. <i>Nuclear Fusion</i> , 2013, 53, 104018.	3.5	17
57	Representation of ideal magnetohydrodynamic modes. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	22
58	Guiding center equations of high accuracy. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 115002.	2.1	6
59	Energetic particle instabilities in fusion plasmas. <i>Nuclear Fusion</i> , 2013, 53, 104022.	3.5	79
60	Comparison of Measurement and Modeling of Current Profile Changes due to Neutral Beam Ion Redistribution during TAE Avalanches in NSTX. <i>Plasma and Fusion Research</i> , 2013, 8, 2402119-2402119.	0.7	1
61	Mode particle resonance in toroidal fusion devices. , 2012, , .		0
62	Edge topology and flows in the reversed-field pinch. <i>Nuclear Fusion</i> , 2012, 52, 054015.	3.5	16
63	Modification of particle distributions by MHD instabilities I. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 2200-2214.	3.3	59
64	Measurements and modeling of Alfvén eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	90
65	Modification of particle distributions by magnetohydrodynamic instabilities II. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 085018.	2.1	17
66	Particle distribution modification by low amplitude modes. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 045012.	2.1	69
67	Neoclassical Transport in the Helical Reversed-Field Pinch. <i>Physical Review Letters</i> , 2010, 105, 195006.	7.8	20
68	Beam distribution modification by Alfvén modes. <i>Physics of Plasmas</i> , 2010, 17, 056107.	1.9	60
69	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
70	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
71	Nonlocal transport in the reversed field pinch. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124026.	2.1	32
72	Overview of RFX-mod results. <i>Nuclear Fusion</i> , 2009, 49, 104019.	3.5	43

#	ARTICLE	IF	CITATIONS
73	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
74	Nonlinear interaction between ions and multiple electrostatic waves. Physics of Plasmas, 2009, 16, .	1.9	8
75	High Energy Particles in Tokamaks. AIP Conference Proceedings, 2008, , .	0.4	3
76	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
77	Maintaining the quasi-steady state central current density profile in hybrid discharges. Nuclear Fusion, 2007, 47, 434-442.	3.5	12
78	Chaos generated pinch effect in toroidal confinement devices. Physics of Plasmas, 2007, 14, 102310.	1.9	19
79	Anomalous Flattening of the Fast-Ion Profile during Alfvén-Eigenmode Activity. Physical Review Letters, 2007, 99, 245002.	7.8	99
80	Stabilization of the quasi-interchange mode in tokamaks by circulating energetic ions. Physics of Plasmas, 2007, 14, 012504.	1.9	6
81	Magnetohydrodynamic activity and energetic ions in fusion plasmas. Plasma Physics and Controlled Fusion, 2007, 49, A159-A166.	2.1	3
82	Ion and electron local transport inside single helicity islands in the reversed field pinch. Physics of Plasmas, 2007, 14, 072305.	1.9	14
83	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
84	High-frequency shear Alfvén instability driven by circulating energetic ions in NSTX. Physics of Plasmas, 2006, 13, 122503.	1.9	10
85	Nonlocal neoclassical transport in tokamak and spherical torus experiments. Physics of Plasmas, 2006, 13, 082501.	1.9	37
86	Progress towards steady state on NSTX. Nuclear Fusion, 2006, 46, S22-S28.	3.5	17
87	Interchange and infernal fishbone modes in plasmas with tangentially injected beams. Physics of Plasmas, 2006, 13, 052504.	1.9	10
88	Effect of plasma shaping on performance in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 056122.	1.9	33
89	Transport Barrier inside the Reversal Surface in the Chaotic Regime of the Reversed-Field Pinch. Physical Review Letters, 2006, 96, 025001.	7.8	60
90	Improved Particle Confinement in Transition from Multiple-Helicity to Quasi-Single-Helicity Regimes of a Reversed-Field Pinch. Physical Review Letters, 2006, 97, 175001.	7.8	24

#	ARTICLE	IF	CITATIONS
91	Ion acceleration in plasmas with Alfvén waves. <i>Physics of Plasmas</i> , 2005, 12, 102101.	1.9	7
92	Zonal flow dynamics and anomalous transport. <i>Physics of Plasmas</i> , 2005, 12, 057304.	1.9	7
93	Stabilization of sawtooth oscillations by the circulating energetic ions. <i>Physics of Plasmas</i> , 2005, 12, 022501.	1.9	11
94	Trapped particles in the RFP single helicity States. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 460-461.	1.3	0
95	Overview of results in the MST reversed field pinch experiment. <i>Nuclear Fusion</i> , 2005, 45, S276-S282.	3.5	14
96	Imaging of a double helical structure in the reversed field pinch. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 458-459.	1.3	2
97	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). <i>Nuclear Fusion</i> , 2005, 45, S168-S180.	3.5	60
98	Energetic ion transport and concomitant change of the fusion reactivity during reconnection events in spherical tori. <i>Physics of Plasmas</i> , 2004, 11, 5302-5315.	1.9	4
99	Observations of Multiple Magnetic Islands in the Core of a Reversed Field Pinch. <i>Physical Review Letters</i> , 2004, 92, 125001.	7.8	30
100	Alfvén continuum and Alfvén eigenmodes in the National Compact Stellarator Experiment. <i>Physics of Plasmas</i> , 2004, 11, 5444-5451.	1.9	4
101	Zonal-Flow Dynamics and Size Scaling of Anomalous Transport. <i>Physical Review Letters</i> , 2004, 92, 075004.	7.8	52
102	Particle-Transport Analysis in Reversed Field Pinch Helical States. <i>Physical Review Letters</i> , 2004, 93, 145001.	7.8	38
103	On the stabilization of fast magnetoacoustic waves by toroidally trapped energetic ions. <i>Physics of Plasmas</i> , 2004, 11, 5409-5412.	1.9	6
104	Double-kink fishbone instability caused by circulating energetic ions. <i>Physics of Plasmas</i> , 2004, 11, 1803-1809.	1.9	11
105	Nonlinear paradigm for drift wave-zonal flow interplay: Coherence, chaos, and turbulence. <i>Physics of Plasmas</i> , 2004, 11, 2488-2496.	1.9	52
106	Ignited spherical tokamaks and plasma regimes with LiWalls. <i>Fusion Engineering and Design</i> , 2004, 72, 149-168.	1.9	55
107	Global \hat{r} particle simulation of neoclassical transport and ambipolar electric field in general geometry. <i>Computer Physics Communications</i> , 2004, 164, 178-182.	7.5	26
108	Collisional transport in a low aspect ratio tokamak. <i>Physics of Plasmas</i> , 2004, 11, L45-L48.	1.9	7

#	ARTICLE	IF	CITATIONS
109	Hamiltonian guiding center equations in toroidal magnetic configurations. <i>Physics of Plasmas</i> , 2003, 10, 573-576.	1.9	30
110	Bounce precession fishbones in the national spherical torus experiment. <i>Nuclear Fusion</i> , 2003, 43, 1258-1264.	3.5	56
111	Precession of toroidally passing particles in tokamaks and spherical tori. <i>Physics of Plasmas</i> , 2003, 10, 1449-1457.	1.9	17
112	Theory and observations of high frequency Alfvén eigenmodes in low aspect ratio plasmas. <i>Nuclear Fusion</i> , 2003, 43, 228-233.	3.5	53
113	Wave driven fast ion loss in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 2852-2862.	1.9	58
114	Destabilization of fast magnetoacoustic waves by circulating energetic ions in toroidal plasmas. <i>Physics of Plasmas</i> , 2003, 10, 4771-4775.	1.9	16
115	Overview of quasi-single helicity experiments in reversed field pinches. <i>Nuclear Fusion</i> , 2003, 43, 1855-1862.	3.5	102
116	On plasma rotation induced by traveling fast Alfvén waves. <i>Physics of Plasmas</i> , 2002, 9, 511-516.	1.9	10
117	Resonant plasma heating below the cyclotron frequency. <i>Physics of Plasmas</i> , 2002, 9, 1890-1897.	1.9	76
118	Compressional Alfvén eigenmode instability in NSTX. <i>Nuclear Fusion</i> , 2002, 42, 977-985.	3.5	42
119	Simulations of beam ion transport during tearing modes in the DIII-D tokamak. <i>Nuclear Fusion</i> , 2002, 42, 853-862.	3.5	61
120	Mechanisms of stochastic diffusion of energetic ions in spherical tori. <i>Physics of Plasmas</i> , 2002, 9, 2639-2654.	1.9	12
121	Effect of trapped energetic ions on MHD activity in spherical tori. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 305, 245-250.	2.1	1
122	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
123	Transport of energetic ions during relaxation oscillations in plasmas of spherical tori. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 287, 131-136.	2.1	6
124	Non-linear zonal dynamics of drift and drift-Alfvén turbulence in tokamak plasmas. <i>Nuclear Fusion</i> , 2001, 41, 747-753.	3.5	72
125	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
126	Physics of the compact advanced stellarator NCSX. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, A237-A249.	2.1	161

#	ARTICLE	IF	CITATIONS
127	Ion Heating by Fast-Particle-Induced Alfvén Turbulence. <i>Physical Review Letters</i> , 2001, 87, 205003.	7.8	58
128	Low frequency fishbone mode induced by circulating particles in spherical tori. <i>Physics of Plasmas</i> , 2001, 8, 3143-3145.	1.9	13
129	The toroidicity-induced Alfvén 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
130	On resonant heating below the cyclotron frequency. <i>Physics of Plasmas</i> , 2001, 8, 4713-4716.	1.9	150
131	Recent advances in the design of quasisymmetric stellarator plasma configurations. <i>Physics of Plasmas</i> , 2001, 8, 2083-2094.	1.9	46
132	Effect of sawtooth oscillations on energetic ions. <i>Nuclear Fusion</i> , 2000, 40, 1325-1341.	3.5	40
133	Numerical and theoretical studies of turbulence and transport with shear flows. <i>Nuclear Fusion</i> , 2000, 40, 737-741.	3.5	0
134	Fast particle destabilization of toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2000, 7, 1433-1436.	1.9	8
135	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
136	Small-Action Particles in a Tokamak in the Presence of $n=1$ Mode. <i>Physical Review Letters</i> , 2000, 84, 2152-2155.	7.8	6
137	Excitation of zonal flow by drift waves in toroidal plasmas. <i>Physics of Plasmas</i> , 2000, 7, 3129-3132.	1.9	271
138	The KSTAR project: An advanced steady state superconducting tokamak experiment. <i>Nuclear Fusion</i> , 2000, 40, 575-582.	3.5	168
139	Physics design of a high-beta quasi-axisymmetric stellarator. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, B273-B283.	2.1	56
140	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
141	MHD induced alpha particle loss in TFTR. <i>Nuclear Fusion</i> , 1999, 39, 1097-1109.	3.5	44
142	Physics of compact stellarators. <i>Physics of Plasmas</i> , 1999, 6, 1858-1864.	1.9	32
143	Numerical study of the nonlinear evolution of toroidicity-induced Alfvén eigenmodes. <i>Physics of Plasmas</i> , 1999, 6, 226-237.	1.9	25
144	Neoclassical simulations of fusion alpha particles in pellet charge exchange experiments on the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 2826-2833.	1.9	6

#	ARTICLE	IF	CITATIONS
145	Role of Alfvén instabilities in energetic ion transport. <i>Physics of Plasmas</i> , 1999, 6, 1880-1884.	1.9	33
146	Anomalous Beam-Ion Loss in TFTR Reversed Magnetic Shear Plasmas. <i>Physical Review Letters</i> , 1999, 82, 924-927.	7.8	13
147	Fusion performance analysis of plasmas with reversed magnetic shear in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 3247-3262.	1.9	1
148	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
149	Distributions of alpha particles escaping to the wall during sawtooth oscillations in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 1117-1130.	1.9	7
150	Energetic particle transport in compact quasi-axisymmetric stellarators. <i>Physics of Plasmas</i> , 1999, 6, 3509-3520.	1.9	10
151	Saturation of alpha particle driven instability in Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 629-632.	1.9	24
152	Generation of plasma rotation by ion cyclotron resonance heating in tokamaks. <i>Physics of Plasmas</i> , 1999, 6, 1969-1977.	1.9	43
153	Turbulent Transport Reduction by Zonal Flows: Massively Parallel Simulations. , 1998, 281, 1835-1837.		870
154	Confined trapped alpha behaviour in TFTR deuterium-tritium plasmas. <i>Nuclear Fusion</i> , 1998, 38, 1283-1302.	3.5	16
155	Effects of $q(r)$ on the alpha particle ripple loss in TFTR. <i>Nuclear Fusion</i> , 1998, 38, 739-760.	3.5	13
156	Summary of alpha particle transport. <i>Nuclear Fusion</i> , 1998, 38, 1345-1352.	3.5	3
157	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
158	Chaos in trapped particle orbits. <i>Physical Review E</i> , 1998, 58, 1774-1779.	2.1	15
159	Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas. <i>Physics of Plasmas</i> , 1998, 5, 1703-1711.	1.9	33
160	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
161	Near threshold anomalous transport in the standard map. <i>Chaos</i> , 1998, 8, 757-767.	2.5	32
162	Nonuniversality of transport for the standard map. , 1998, , 403-438.		2

#	ARTICLE	IF	CITATIONS
163	TFTR DT experiments. Plasma Physics and Controlled Fusion, 1997, 39, B103-B114.	2.1	35
164	Observations of neutral beam and ICRF tail ion losses due to Alfvén modes in TFTR. Nuclear Fusion, 1997, 37, 939-954.	3.5	43
165	Alpha-particle physics in the tokamak fusion test reactor DT experiment. Plasma Physics and Controlled Fusion, 1997, 39, A275-A283.	2.1	23
166	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1714-1724.	1.9	27
167	Energetic particle orbits in the National Spherical Tokamak Experiment. Physics of Plasmas, 1997, 4, 3667-3675.	1.9	34
168	Simulation of α -particle redistribution due to sawteeth on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1103-1109.	1.9	20
169	Collisional α method. Physics of Plasmas, 1997, 4, 3591-3598.	1.9	35
170	Calculations of alpha particle loss for reversed magnetic shear in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 4001-4008.	1.9	10
171	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
172	Symbolic Analysis of Chaotic Signals and Turbulent Fluctuations. Physical Review Letters, 1997, 78, 54-57.	7.8	75
173	Self-similarity and transport in the standard map. Physical Review E, 1997, 55, 4909-4917.	2.1	72
174	Alpha-Particle-Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor. Physical Review Letters, 1997, 78, 2976-2979.	7.8	118
175	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. Physics of Plasmas, 1996, 3, 1875-1880.	1.9	25
176	Ripple-induced energetic particle loss in tokamaks. Physics of Plasmas, 1996, 3, 3043-3054.	1.9	43
177	Simulations of alpha particle ripple loss from the International Thermonuclear Experimental Reactor. Physics of Plasmas, 1996, 3, 3037-3042.	1.9	21
178	On the existence of weakly non-axisymmetric scalar-pressure magnetostatic equilibria. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 218, 304-311.	2.1	2
179	Quasi-helical magnetohydrodynamic equilibria in the presence of flow. Physics of Plasmas, 1996, 3, 2653-2663.	1.9	12
180	First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR Deuterium-Tritium Experiments. Physical Review Letters, 1996, 76, 1071-1074.	7.8	26

#	ARTICLE	IF	CITATIONS
181	Nonlinear evolution of the alphaâ€particleâ€driven toroidicityâ€induced AlfvÃ©n eigenmode. Physics of Plasmas, 1995, 2, 4555-4562.	1.9	23
182	Recent D-T results on TFTR. Plasma Physics and Controlled Fusion, 1995, 37, A69-A85.	2.1	22
183	Extended representation for ballooning modes in the presence of shear flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 288-296.	2.1	0
184	Non-linear analysis of the toroidicity induced Alfvén eigenmode. Nuclear Fusion, 1995, 35, 1707-1712.	3.5	14
185	Rapid guiding center calculations. Physics of Plasmas, 1995, 2, 2915-2919.	1.9	32
186	Modelling TF ripple loss of alpha particles in TFTR DT experiments. Nuclear Fusion, 1995, 35, 1509-1516.	3.5	38
187	Collisional stochastic ripple diffusion of alpha particles and beam ions on TFTR. Nuclear Fusion, 1995, 35, 1191-1211.	3.5	42
188	Review of deuteriumâ€tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	1.9	89
189	Toroidal AlfvÃ©n eigenmodeâ€induced ripple trapping. Physics of Plasmas, 1995, 2, 2871-2873.	1.9	87
190	Overview of DT results from TFTR. Nuclear Fusion, 1995, 35, 1429-1436.	3.5	41
191	Measurements of DT alpha particle loss near the outer midplane of TFTR. Nuclear Fusion, 1995, 35, 1445-1455.	3.5	23
192	Monte Carlo approach to collisional transport. Physics of Plasmas, 1994, 1, 2603-2613.	1.9	5
193	Selfâ€consistent study of the alphaâ€particleâ€driven toroidicityâ€induced AlfvÃ©n eigenmode. Physics of Plasmas, 1994, 1, 2733-2740.	1.9	22
194	Probabilistic approach to Monte Carlo operators. Physics of Plasmas, 1994, 1, 2591-2602.	1.9	4
195	Anomalous losses of deuteriumâ€deuterium fusion products in the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1469-1478.	1.9	29
196	Construction of Monte Carlo operators in collisional transport theory. Physics of Plasmas, 1994, 1, 951-959.	1.9	6
197	Alpha particle effects on the internal kink and fishbone modes. Physics of Plasmas, 1994, 1, 3369-3377.	1.9	27
198	Particle and heat transport in a partially stochastic magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 101-105.	2.1	2

#	ARTICLE	IF	CITATIONS
199	Collisionless transport in a stochastic magnetic field. Plasma Physics and Controlled Fusion, 1993, 35, 595-599.	2.1	22
200	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
201	Theory of runaway collisional transport. Physics of Fluids B, 1993, 5, 3942-3960.	1.7	8
202	Numerical simulation of bootstrap current. Physics of Fluids B, 1993, 5, 3291-3298.	1.7	11
203	Three-dimensional hybrid gyrokinetic-magnetohydrodynamics simulation. Physics of Fluids B, 1992, 4, 2033-2037.	1.7	115
204	Multispecies transport theory for axisymmetric rotating plasmas. Physics of Fluids B, 1992, 4, 859-871.	1.7	16
205	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
206	Effective diffusion and nonlocal heat transport in a stochastic magnetic field. Physical Review Letters, 1992, 68, 1523-1526.	7.8	42
207	Sawtooth stabilization by electron cyclotron heating at the $q=1$ surface in the W7-AS tokamak. Physics of Fluids B, 1991, 3, 2200-2204.	1.7	5
208	Symbolic kinetic analysis of two-dimensional maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 158, 51-56.	2.1	22
209	Symbolic kinetic equation for a chaotic attractor. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 419-424.	2.1	24
210	Stability of internal kink modes with energetic trapped particles. Nuclear Fusion, 1991, 31, 631-646.	3.5	14
211	Sawtooth stabilization by localized electron cyclotron heating in a tokamak plasma. Physical Review Letters, 1991, 66, 1974-1977.	7.8	35
212	MeV ion confinement in the TFTR tokamak. Physics of Fluids B, 1990, 2, 1411-1414.	1.7	14
213	Canonical Hamiltonian guiding center variables. Physics of Fluids B, 1990, 2, 845-847.	1.7	92
214	Influence of an energetic ion population on tokamak plasma stability. Physics of Fluids B, 1990, 2, 745-753.	1.7	43
215	Mode- q particle resonances during near-tangential neutral beam injection in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1990, 2, 1584-1588.	1.7	26
216	High- β , Sawtooth-Free Tokamak Operation Using Energetic Trapped Particles. Physical Review Letters, 1989, 62, 539-542.	7.8	87

#	ARTICLE	IF	CITATIONS
217	Nonlinear interaction of energetic ring current protons with magnetospheric hydromagnetic waves. Geophysical Research Letters, 1989, 16, 1133-1136.	4.0	26
218	Alpha particle confinement in tokamaks. Physics of Fluids B, 1989, 1, 980-982.	1.7	61
219	Nonlinear self-sustainment of magnetic islands. Physics of Fluids B, 1989, 1, 977-979.	1.7	19
220	Sawtooth Stabilization by Energetic Trapped Particles. Physical Review Letters, 1988, 60, 2038-2041.	7.8	91
221	Anomalous thermal confinement in ohmically heated tokamaks. Nuclear Fusion, 1986, 26, 1515-1528.	3.5	85
222	Resistive reconnection. Reviews of Modern Physics, 1986, 58, 183-207.	45.6	79
223	Study of the effect of localized ECH on transport and stability in plasmas. AIP Conference Proceedings, 1985, , .	0.4	0
224	Measurement of current penetration during PDX discharge startup. Nuclear Fusion, 1985, 25, 321-333.	3.5	24
225	Trapped particle destabilization of the internal kink mode. Physics of Fluids, 1985, 28, 278-286.	1.4	91
226	Reconnection rates of magnetic fields including the effects of viscosity. Physics of Fluids, 1984, 27, 137.	1.4	149
227	Excitation of Internal Kink Modes by Trapped Energetic Beam Ions. Physical Review Letters, 1984, 52, 1122-1125.	7.8	478
228	Hamiltonian guiding center drift orbit calculation for plasmas of arbitrary cross section. Physics of Fluids, 1984, 27, 2455.	1.4	443
229	Invariant distribution on the attractors in the presence of noise. Physical Review A, 1983, 27, 1203-1206.	2.5	9
230	Theory of mode-induced beam particle loss in tokamaks. Physics of Fluids, 1983, 26, 2958.	1.4	158
231	Particle Diffusion in Tokamaks with Partially Destroyed Magnetic Surfaces. Physical Review Letters, 1982, 49, 786-789.	7.8	39
232	Drift Hamiltonian in magnetic coordinates. Physics of Fluids, 1982, 25, 575.	1.4	68
233	Alfvén wave cyclotron resonance heating. Physics of Fluids, 1982, 25, 384.	1.4	19
234	Effect of noise on the standard mapping. Physica D: Nonlinear Phenomena, 1982, 4, 425-438.	2.8	69

#	ARTICLE	IF	CITATIONS
235	Confinement of High-Energy Trapped Particles in Tokamaks. Physical Review Letters, 1981, 47, 647-649.	7.8	272
236	Fourier-space paths applied to the calculation of diffusion for the Chirikov-Taylor model. Physical Review A, 1981, 23, 2664-2672.	2.5	177
237	Developing countries. Physics Today, 1981, 34, 107-108.	0.3	1
238	Non-linear saturation of the internal kink mode. Nuclear Fusion, 1980, 20, 1181-1185.	3.5	48
239	Nonlinear drift tearing modes. Physics of Fluids, 1980, 23, 366.	1.4	51
240	Magnetohydrodynamical interchange instability in low- \hat{I}^2 plasmas in sheared systems. Physics of Fluids, 1980, 23, 791.	1.4	5
241	Impurity effects on ion-drift-wave eigenmodes in a sheared magnetic field. Physics of Fluids, 1980, 23, 167.	1.4	42
242	Magnetic driving energy of the collisional tearing modes. Physics of Fluids, 1980, 23, 1375.	1.4	23
243	Calculation of Turbulent Diffusion for the Chirikov-Taylor Model. Physical Review Letters, 1980, 44, 1586-1589.	7.8	247
244	Theory of dissipative drift instabilities in sheared magnetic fields. Nuclear Fusion, 1979, 19, 373-387.	3.5	60
245	Calculation of the Kolmogorov Entropy for Motion Along a Stochastic Magnetic Field. Physical Review Letters, 1979, 42, 1247-1250.	7.8	107
246	Unstable Drift Waves in a Sheared Magnetic Field. Physical Review Letters, 1979, 43, 347-350.	7.8	11
247	An interactive code for solving differential equations, using phase integral methods. Journal of Computational Physics, 1979, 31, 409-424.	3.8	40
248	Reply to the comments on "Simulation of large magnetic islands: A possible mechanism for a major tokamak disruption". Physical Review A, 1978, 18, 2735-2735.	2.5	4
249	Theory of Universal Eigenmodes in a Sheared Magnetic Field. Physical Review Letters, 1978, 41, 649-653.	7.8	44
250	Nonlinear helical perturbations of a tokamak. Physics of Fluids, 1977, 20, 390.	1.4	1
251	Simulation of Large Magnetic Islands: A Possible Mechanism for a Major Tokamak Disruption. Physical Review Letters, 1977, 39, 1618-1621.	7.8	92
252	Saturation of the tearing mode. Physics of Fluids, 1977, 20, 800.	1.4	345

#	ARTICLE	IF	CITATIONS
253	Numerical studies of nonlinear evolution of kink modes in tokamaks. <i>Physics of Fluids</i> , 1976, 19, 1987.	1.4	131
254	Formation of ion-acoustic shocks. <i>Physics of Fluids</i> , 1974, 17, 211.	1.4	11
255	Absolute parametric instabilities in inhomogeneous plasmas. <i>Nuclear Fusion</i> , 1974, 14, 45-51.	3.5	60
256	Amplification and absorption of electromagnetic waves in overdense plasmas. <i>Plasma Physics</i> , 1974, 16, 565-587.	0.9	165
257	Nonlinear Schrödinger-Equation Model of the Oscillating Two-Stream Instability. <i>Physical Review Letters</i> , 1974, 32, 457-460.	7.8	49
258	Raman and Brillouin scattering of electromagnetic waves in inhomogeneous plasmas. <i>Physics of Fluids</i> , 1974, 17, 1211.	1.4	385
259	Temporal Evolution of a Three-Wave Parametric Instability. <i>Physical Review Letters</i> , 1973, 31, 1190-1193.	7.8	125
260	Parametric Decay of Obliquely Incident Radiation. <i>Physical Review Letters</i> , 1973, 31, 520-523.	7.8	30
261	Turbulence in electrostatic ion-acoustic shocks. <i>Physics of Fluids</i> , 1973, 16, 2304.	1.4	24
262	Parametric Scattering Instabilities in Inhomogeneous Plasmas. <i>Physical Review Letters</i> , 1973, 31, 697-700.	7.8	71
263	Structure of Ion Acoustic Solitons and Shock Waves in a Two-Component Plasma. <i>Physics of Fluids</i> , 1972, 15, 1484.	1.4	37
264	Nonlinear Mode Coupling and Relaxation Oscillations. <i>Physical Review Letters</i> , 1972, 29, 1315-1318.	7.8	18
265	Instability of ring current protons beyond the plasmopause during injection events. <i>Journal of Geophysical Research</i> , 1972, 77, 6243-6248.	3.3	76
266	Electron Plasma Waves and Free-Streaming Electron Bursts. <i>Physics of Fluids</i> , 1971, 14, 1997.	1.4	75
267	Ion Acoustic Waves in a Multi-Ion Plasma. <i>Physics of Fluids</i> , 1971, 14, 2388.	1.4	93
268	SL(6,C) and Meson Decays. <i>Physical Review</i> , 1967, 159, 1374-1377.	2.7	2
269	$\tilde{A}(12)$ Symmetry and Weak Interactions. <i>Physical Review Letters</i> , 1965, 14, 527-530.	7.8	10
270	Collisionless losses of fast ions in the Divertor Tokamak Test due to toroidal field ripple. <i>Nuclear Fusion</i> , 0, , .	3.5	6