

Raffi Nazikian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/591359/publications.pdf>

Version: 2024-02-01

287
papers

9,971
citations

36303

51
h-index

60623

81
g-index

293
all docs

293
docs citations

293
times ranked

2549
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress from ASDEX Upgrade experiments in preparing the physics basis of ITER operation and DEMO scenario development. Nuclear Fusion, 2022, 62, 042006.	3.5	15
2	Optimization of 3D controlled ELM-free state with recovered global confinement for KSTAR with $n = 1$ resonant magnetic field perturbation. Nuclear Fusion, 2022, 62, 026043.	3.5	8
3	Role of the edge stochastic layer in density pump-out by resonant magnetic perturbations. Nuclear Fusion, 2022, 62, 076007.	3.5	3
4	Edge-coherent oscillation providing nearly continuous transport during edge-localized mode mitigation by $n = 1$ resonant magnetic perturbation in HL-2A. Nuclear Fusion, 2021, 61, 036020.	3.5	16
5	CAKE: Consistent Automatic Kinetic Equilibrium reconstruction. Fusion Engineering and Design, 2021, 163, 112163.	1.9	23
6	Quasisymmetric Optimization of Nonaxisymmetry in Tokamaks. Physical Review Letters, 2021, 126, 125001.	7.8	8
7	Pedestal collapse by resonant magnetic perturbations. Nuclear Fusion, 2021, 61, 044001.	3.5	7
8	3D modeling of boron transport in DIII-D L-mode wall conditioning experiments. Nuclear Materials and Energy, 2021, 26, 100900.	1.3	10
9	Predicting operational windows of ELMs suppression by resonant magnetic perturbations in the DIII-D and KSTAR tokamaks. Physics of Plasmas, 2021, 28, .	1.9	20
10	Response to “Comment on ‘Theory of Alfvén-slow frequency gaps and discovery of Alfvén-slow eigenmodes in tokamaks’” [Phys. Plasmas 28, 074701, (2021)]. Physics of Plasmas, 2021, 28, 074702.	1.9	1
11	Effects of resonant magnetic perturbations on radial electric fields in DIII-D tokamak. Plasma Science and Technology, 2021, 23, 105104.	1.5	1
12	Wall conditioning and ELM mitigation with boron nitride powder injection in KSTAR. Nuclear Materials and Energy, 2021, 28, 101043.	1.3	12
13	Nonlinear two-fluid modeling of plasma response to RMPs for the ELM control in the ITER baseline. Nuclear Fusion, 2021, 61, 106006.	3.5	7
14	Wide Operational Windows of Edge-Localized Mode Suppression by Resonant Magnetic Perturbations in the DIII-D Tokamak. Physical Review Letters, 2020, 125, 045001.	7.8	40
15	The role of edge resonant magnetic perturbations in edge-localized-mode suppression and density pump-out in low-collisionality DIII-D plasmas. Nuclear Fusion, 2020, 60, 076001.	3.5	36
16	Simulation of the eigenmode spectrum below the Toroidicity-induced Alfvén eigenmode gap generated by the coupling of Alfvén and slow-magnetosonic waves in tokamaks. Plasma Physics and Controlled Fusion, 2020, 62, 075012.	2.1	8
17	Gyrokinetic understanding of the edge pedestal transport driven by resonant magnetic perturbations in a realistic divertor geometry. Physics of Plasmas, 2020, 27, .	1.9	15
18	Real-time pedestal optimization and ELM control with 3D fields and gas flows on DIII-D. Nuclear Fusion, 2020, 60, 076004.	3.5	12

#	ARTICLE	IF	CITATIONS
19	Nonlinear modeling of the scaling law for the $m/n = 3/2$ error field penetration threshold. Nuclear Fusion, 2020, 60, 076006.	3.5	15
20	Observations of wall conditioning by means of boron powder injection in DIII-D H-mode plasmas. Nuclear Fusion, 2020, 60, 126010.	3.5	27
21	Model predictive control of KSTAR equilibrium parameters enabled by TRANSP. Nuclear Fusion, 2020, 60, 096007.	3.5	5
22	Role of fast-ion transport manipulating safety factor profile in KSTAR early diverting discharges. Nuclear Fusion, 2020, 60, 126023.	3.5	7
23	Optimization of high heat flux components for DIII-D neutral beam upgrades. Fusion Engineering and Design, 2019, 146, 1233-1236.	1.9	2
24	DIII-D research towards establishing the scientific basis for future fusion reactors. Nuclear Fusion, 2019, 59, 112002.	3.5	23
25	Gyrokinetic study of collisional resonant magnetic perturbation (RMP)-driven plasma density and heat transport in tokamak edge plasma using a magnetohydrodynamic screened RMP field. Nuclear Fusion, 2019, 59, 126009.	3.5	26
26	Divertor currents during type-I edge-localized modes on the DIII-D tokamak. Nuclear Fusion, 2019, 59, 126020.	3.5	5
27	Theory of Alfvén-slow frequency gaps and discovery of Alfvén-slow eigenmodes in tokamaks. Physics of Plasmas, 2019, 26, 082508.	1.9	11
28	Formation of a High Pressure Staircase Pedestal with Suppressed Edge Localized Modes in the DIII-D Tokamak. Physical Review Letters, 2019, 123, 115001.	7.8	24
29	A locked mode indicator for disruption prediction on JET and ASDEX upgrade. Fusion Engineering and Design, 2019, 138, 254-266.	1.9	8
30	The effect of plasma shape and neutral beam mix on the rotation threshold for RMP-ELM suppression. Nuclear Fusion, 2019, 59, 056012.	3.5	35
31	Ablation of solid pellets induced by supra-thermal ions in the far scrape-off layer of DIII-D plasmas. Nuclear Fusion, 2019, 59, 084003.	3.5	6
32	Observation of divertor currents during type-I ELMs on the DIII-D tokamak. Nuclear Materials and Energy, 2019, 18, 222-226.	1.3	4
33	Real-time wall conditioning by controlled injection of boron and boron nitride powder in full tungsten wall ASDEX Upgrade. Nuclear Materials and Energy, 2019, 19, 384-389.	1.3	35
34	Feedback control of stored energy and rotation with variable beam energy and perveance on DIII-D. Nuclear Fusion, 2019, 59, 076004.	3.5	7
35	Effects of RMP-induced changes of radial electric fields on microturbulence in DIII-D pedestal top. Nuclear Fusion, 2019, 59, 046005.	3.5	21
36	A horizontal powder injector for W7-X. Fusion Engineering and Design, 2019, 146, 1403-1407.	1.9	8

#	ARTICLE	IF	CITATIONS
37	The density dependence of edge-localized-mode suppression and pump-out by resonant magnetic perturbations in the DIII-D tokamak. Physics of Plasmas, 2019, 26, .	1.9	51
38	Fast and pervasive heat transport induced by multiple locked modes in DIII-D. Nuclear Fusion, 2019, 59, 016005.	3.5	15
39	Identification of multiple eigenmode growth rates in DIII-D and EAST tokamak plasmas. Nuclear Fusion, 2019, 59, 024001.	3.5	14
40	Edge localized mode suppression and plasma response using mixed toroidal harmonic resonant magnetic perturbations in DIII-D. Nuclear Fusion, 2019, 59, 026012.	3.5	12
41	Dynamic divertor control using resonant mixed toroidal harmonic magnetic fields during ELM suppression in DIII-D. Physics of Plasmas, 2018, 25, 056102.	1.9	17
42	A multi-species powder dropper for magnetic fusion applications. Review of Scientific Instruments, 2018, 89, 10K121.	1.3	40
43	Liquid crystal polymer receiver modules for electron cyclotron emission imaging on the DIII-D tokamak. Review of Scientific Instruments, 2018, 89, 10H120.	1.3	15
44	Hybrid simulations of fishbone instabilities and Alfvén eigenmodes in DIII-D tokamak. Physics of Plasmas, 2018, 25, 122504.	1.9	20
45	3D field phase-space control in tokamak plasmas. Nature Physics, 2018, 14, 1223-1228.	16.7	77
46	Magnetic polarization measurements of the multi-modal plasma response to 3D fields in the EAST tokamak. Nuclear Fusion, 2018, 58, 076016.	3.5	10
47	Grassy-ELM regime with edge resonant magnetic perturbations in fully noninductive plasmas in the DIII-D tokamak. Nuclear Fusion, 2018, 58, 106010.	3.5	35
48	Experimental conditions to suppress edge localised modes by magnetic perturbations in the ASDEX Upgrade tokamak. Nuclear Fusion, 2018, 58, 096031.	3.5	73
49	Initial development of the DIII-D snowflake divertor control. Nuclear Fusion, 2018, 58, 066007.	3.5	10
50	Investigation of the role of pedestal pressure and collisionality on type-I ELM divertor heat loads in DIII-D. Nuclear Fusion, 2018, 58, 096023.	3.5	29
51	Kinetic simulations of scrape-off layer physics in the DIII-D tokamak. Nuclear Materials and Energy, 2017, 12, 978-983.	1.3	10
52	Effect of resonant magnetic perturbations on microturbulence in DIII-D pedestal. Nuclear Fusion, 2017, 57, 016005.	3.5	26
53	ELM suppression in helium plasmas with 3D magnetic fields. Nuclear Fusion, 2017, 57, 086016.	3.5	9
54	Comparative investigation of ELM control based on toroidal modelling of plasma response to RMP fields. Physics of Plasmas, 2017, 24, .	1.9	44

#	ARTICLE	IF	CITATIONS
55	Prediction of nonlinear evolution character of energetic-particle-driven instabilities. Nuclear Fusion, 2017, 57, 054001.	3.5	40
56	Effect of rotation zero-crossing on single-fluid plasma response to three-dimensional magnetic perturbations. Plasma Physics and Controlled Fusion, 2017, 59, 044001.	2.1	16
57	Improving fast-ion confinement in high-performance discharges by suppressing Alfvén eigenmodes. Nuclear Fusion, 2017, 57, 056024.	3.5	20
58	Advances in the steady-state hybrid regime in DIII-D—a fully non-inductive, ELM-suppressed scenario for ITER. Nuclear Fusion, 2017, 57, 116057.	3.5	25
59	Mitigation of divertor heat flux by high-frequency ELM pacing with non-fuel pellet injection in DIII-D. Nuclear Materials and Energy, 2017, 12, 1030-1036.	1.3	15
60	Experimental studies of high-confinement mode plasma response to non-axisymmetric magnetic perturbations in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2017, 59, 014049.	2.1	55
61	The energy confinement response of DIII-D plasmas to resonant magnetic perturbations. Nuclear Fusion, 2017, 57, 116030.	3.5	12
62	Overview of ASDEX Upgrade results. Nuclear Fusion, 2017, 57, 102015.	3.5	53
63	Validation of the model for ELM suppression with 3D magnetic fields using low torque ITER baseline scenario discharges in DIII-D. Physics of Plasmas, 2017, 24, .	1.9	43
64	Theory and observation of the onset of nonlinear structures due to eigenmode destabilization by fast ions in tokamaks. Physics of Plasmas, 2017, 24, 122508.	1.9	20
65	Total fluid pressure imbalance in the scrape-off layer of tokamak plasmas. Nuclear Fusion, 2017, 57, 046029.	3.5	3
66	Exploration of the Super H-mode regime on DIII-D and potential advantages for burning plasma devices. Physics of Plasmas, 2016, 23, .	1.9	20
67	High frequency pacing of edge localized modes by injection of lithium granules in DIII-D H-mode discharges. Nuclear Fusion, 2016, 56, 056008.	3.5	42
68	Equilibrium drives of the low and high field side $n=2$ plasma response and impact on global confinement. Nuclear Fusion, 2016, 56, 056001.	3.5	21
69	Evidence of Toroidally Localized Turbulence with Applied 3D Fields in the DIII-D Tokamak. Physical Review Letters, 2016, 117, 135001.	7.8	21
70	Identification of multi-modal plasma responses to applied magnetic perturbations using the plasma reluctance. Physics of Plasmas, 2016, 23, .	1.9	19
71	Rotational shear effects on edge harmonic oscillations in DIII-D quiescent H-mode discharges. Nuclear Fusion, 2016, 56, 076011.	3.5	28
72	Suppression of type-I ELMs with reduced RMP coil set on DIII-D. Nuclear Fusion, 2016, 56, 036020.	3.5	16

#	ARTICLE	IF	CITATIONS
73	Manifestations of the geodesic acoustic mode driven by energetic ions in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 045024.	2.1	7
74	Impact of central ECCD on steady-state hybrid scenario in DIII-D. AIP Conference Proceedings, 2015, , .	0.4	2
75	Three-dimensional equilibria and island energy transport due to resonant magnetic perturbation edge localized mode suppression on DIII-D. Physics of Plasmas, 2015, 22, .	1.9	9
76	Experimental tests of linear and nonlinear three-dimensional equilibrium models in DIII-D. Physics of Plasmas, 2015, 22, .	1.9	40
77	Heat flux management via advanced magnetic divertor configurations and divertor detachment. Journal of Nuclear Materials, 2015, 463, 1186-1190.	2.7	30
78	DIII-D Neutral Beam Pole Shields Design Including Copper Plate with Removable Molybdenum Insert. Fusion Science and Technology, 2015, 68, 373-377.	1.1	5
79	Design and manufacture of DIII-D neutral beam pole shields with copper plates and molybdenum inserts. , 2015, , .		0
80	Microwave Imaging Reflectometry for the study of Edge Harmonic Oscillations on DIII-D. Journal of Instrumentation, 2015, 10, P10036-P10036.	1.2	10
81	Advances in the physics understanding of ELM suppression using resonant magnetic perturbations in DIII-D. Nuclear Fusion, 2015, 55, 023002.	3.5	62
82	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. Physical Review Letters, 2015, 114, 105002.	7.8	141
83	Observation of a Multimode Plasma Response and its Relationship to Density Pumpout and Edge-Localized Mode Suppression. Physical Review Letters, 2015, 114, 105001.	7.8	124
84	Control of plasma stored energy for burn control using DIII-D in-vessel coils. Nuclear Fusion, 2015, 55, 053001.	3.5	16
85	Impurity confinement and transport in high confinement regimes without edge localized modes on	1.9	47
86	Decoupled recovery of energy and momentum with correction of $\nabla n \cdot \nabla \phi = \nabla \phi \cdot \nabla \phi^2$ error fields. Nuclear Fusion, 2015, 55, 083012.	3.3	22
87	Super H-mode: theoretical prediction and initial observations of a new high performance regime for tokamak operation. Nuclear Fusion, 2015, 55, 083026.	3.5	36
88	Extending the physics basis of quiescent H-mode toward ITER relevant parameters. Nuclear Fusion, 2015, 55, 073031.	3.5	12
89	Fast ion transport during applied 3D magnetic perturbations on DIII-D. Nuclear Fusion, 2015, 55, 073028.	3.5	42
90	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8

#	ARTICLE	IF	CITATIONS
91	Using neutral beams as a light ion beam probe (invited). Review of Scientific Instruments, 2014, 85, 11E701.	1.3	13
92	Enhanced localized energetic ion losses resulting from first-orbit linear and non-linear interactions with Alfvén eigenmodes in DIII-D. Physics of Plasmas, 2014, 21, 082503.	1.9	0
93	Comparison of the numerical modelling and experimental measurements of DIII-D separatrix displacements during H-modes with resonant magnetic perturbations. Nuclear Fusion, 2014, 54, 093008.	3.5	16
94	Linear ideal MHD predictions for $n = 2$ non-axisymmetric magnetic perturbations on DIII-D. Plasma Physics and Controlled Fusion, 2014, 56, 035005.	2.1	49
95	Modulation of prompt fast-ion loss by applied $n = 2$ fields in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2014, 56, 015009.	2.1	36
96	Access to a New Plasma Edge State with High Density and Pressures using the Quiescent H -Mode. Physical Review Letters, 2014, 113, 135001.	7.8	53
97	A description of the full-particle-orbit-following SPIRAL code for simulating fast-ion experiments in tokamaks. Plasma Physics and Controlled Fusion, 2013, 55, 025013.	2.1	64
98	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
99	Simulation of localized fast-ion heat loads in test blanket module simulation experiments on DIII-D. Nuclear Fusion, 2013, 53, 123018.	3.5	20
100	Prompt non-resonant neutral beam-ion loss induced by Alfvén eigenmodes in the DIII-D tokamak. Nuclear Fusion, 2013, 53, 123019.	3.5	16
101	DIII-D accomplishments and plans in support of fusion next steps. , 2013, , .		0
102	Increase of turbulence and transport with resonant magnetic perturbations in ELM-suppressed plasmas on DIII-D. Nuclear Fusion, 2013, 53, 113011.	3.5	73
103	Sustained suppression of type-I edge-localized modes with dominantly $n = 2$ magnetic fields in DIII-D. Nuclear Fusion, 2013, 53, 083019.	3.5	46
104	Role of plasma response in displacements of the tokamak edge due to applied non-axisymmetric fields. Nuclear Fusion, 2013, 53, 073042.	3.5	58
105	Multi-field characteristics and eigenmode spatial structure of geodesic acoustic modes in DIII-D L-mode plasmas. Physics of Plasmas, 2013, 20, .	1.9	42
106	Publisher's Note: Enhanced Localized Energetic-Ion Losses Resulting from Single-Pass Interactions with Alfvén Eigenmodes [Phys. Rev. Lett. 110, 065004 (2013)]. Physical Review Letters, 2013, 110, .	7.8	0
107	Enhanced Localized Energetic-Ion Losses Resulting from Single-Pass Interactions with Alfvén Eigenmodes. Physical Review Letters, 2013, 110, 065004.	7.8	24
108	Energetic particle instabilities in fusion plasmas. Nuclear Fusion, 2013, 53, 104022.	3.5	79

#	ARTICLE	IF	CITATIONS
109	Beam ion losses due to energetic particle geodesic acoustic modes. Nuclear Fusion, 2012, 52, 123015.	3.5	18
110	Alfvén eigenmode stability and fast ion loss in DIII-D and ITER reversed magnetic shear plasmas. Nuclear Fusion, 2012, 52, 094023.	3.5	43
111	Measurement of plasma boundary displacement by $n=2$ magnetic perturbations using imaging beam emission spectroscopy. Nuclear Fusion, 2012, 52, 123019.	3.5	47
112	Alfvén eigenmode structure during off-axis neutral beam injection. Nuclear Fusion, 2012, 52, 103009.	3.5	7
113	Fractional Resonances between Waves and Energetic Particles in Tokamak Plasmas. Physical Review Letters, 2012, 109, 035003.	7.8	24
114	Experimental imaging of separatrix splitting on DIII-D. Nuclear Fusion, 2012, 52, 122001.	3.5	24
115	ECE-imaging of the H-mode pedestal (invited). Review of Scientific Instruments, 2012, 83, 10E329.	1.3	31
116	The EPED pedestal model and edge localized mode-suppressed regimes: Studies of quiescent H-mode and development of a model for edge localized mode suppression via resonant magnetic perturbations. Physics of Plasmas, 2012, 19, .	1.9	140
117	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
118	Fast Ion Induced Shearing of 2D Alfvén Eigenmodes Measured by Electron Cyclotron Emission Imaging. Physical Review Letters, 2011, 106, 075003.	7.8	94
119	Sawtooth Precursor Oscillations on DIII-D. IEEE Transactions on Plasma Science, 2011, 39, 3022-3023.	1.3	5
120	ITER test blanket module error field simulation experiments at DIII-D. Nuclear Fusion, 2011, 51, 103028.	3.5	36
121	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
122	Fast-ion effects during test blanket module simulation experiments in DIII-D. Nuclear Fusion, 2011, 51, 103029.	3.5	17
123	Transport of energetic ions due to sawteeth, Alfvén eigenmodes and microturbulence. Nuclear Fusion, 2011, 51, 043012.	3.5	9
124	On the application of electron cyclotron emission imaging to the validation of theoretical models of magnetohydrodynamic activity. Physics of Plasmas, 2011, 18, 056107.	1.9	14
125	Combined ideal and kinetic effects on reversed shear Alfvén eigenmodes. Physics of Plasmas, 2011, 18, .	1.9	10
126	Recent Progress on Microwave Imaging Technology and New Physics Results. Plasma and Fusion Research, 2011, 6, 2106042-2106042.	0.7	14

#	ARTICLE	IF	CITATIONS
127	Imaging key aspects of fast ion physics in the DIII-D tokamak. Nuclear Fusion, 2010, 50, 084002.	3.5	16
128	Commissioning of electron cyclotron emission imaging instrument on the DIII-D tokamak and first data. Review of Scientific Instruments, 2010, 81, 10D928.	1.3	89
129	Modeling the response of a fast ion loss detector using orbit tracing techniques in a neutral beam prompt-loss study on the DIII-D tokamak. Review of Scientific Instruments, 2010, 81, 10D305.	1.3	19
130	Beta-induced Alfvén-acoustic eigenmodes in National Spherical Torus Experiment and DIII-D driven by beam ions. Physics of Plasmas, 2009, 16, .	1.9	75
131	Dual array ECEI instrument for imaging and visualization of MHD and microturbulence phenomena on the DIII-D tokamak. , 2009, , .		0
132	Advances in understanding the generation and evolution of the toroidal rotation profile on DIII-D. Nuclear Fusion, 2009, 49, 085005.	3.5	73
133	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
134	3D Full-Wave Simulations of Reflectometry. AIP Conference Proceedings, 2009, , .	0.4	5
135	Measurements, modelling and electron cyclotron heating modification of Alfvén eigenmode activity in DIII-D. Nuclear Fusion, 2009, 49, 065003.	3.5	56
136	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	3.5	200
137	A new and highly flexible dual array electron cyclotron emission imaging diagnostic for DIII-D. , 2009, , .		0
138	Reversed shear Alfvén eigenmodes in the frequency range of the triangularity induced gap on JET. Plasma Physics and Controlled Fusion, 2008, 50, 082001.	2.1	8
139	Central flattening of the fast-ion profile in reversed-shear DIII-D discharges. Nuclear Fusion, 2008, 48, 084001.	3.5	46
140	Reversed shear Alfvén eigenmode stabilization by localized electron cyclotron heating. Plasma Physics and Controlled Fusion, 2008, 50, 035009.	2.1	47
141	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
142	Intense Geodesic Acousticlike Modes Driven by Suprathermal Ions in a Tokamak Plasma. Physical Review Letters, 2008, 101, 185001.	7.8	132
143	Tearing mode structure in the DIII-D tokamak through spectrally filtered fast visible bremsstrahlung imaging. Nuclear Fusion, 2008, 48, 092002.	3.5	24
144	Maintaining the quasi-steady state central current density profile in hybrid discharges. Nuclear Fusion, 2007, 47, 434-442.	3.5	12

#	ARTICLE	IF	CITATIONS
145	Coupling of global toroidal Alfvén eigenmodes and reversed shear Alfvén eigenmodes in DIII-D. Physics of Plasmas, 2007, 14, 056102.	1.9	36
146	Anomalous Flattening of the Fast-Ion Profile during Alfvén-Eigenmode Activity. Physical Review Letters, 2007, 99, 245002.	7.8	99
147	Momentum confinement at low torque. Plasma Physics and Controlled Fusion, 2007, 49, B313-B324.	2.1	84
148	Chapter 5: Physics of energetic ions. Nuclear Fusion, 2007, 47, S264-S284.	3.5	478
149	Initial results of H-mode edge pedestal turbulence evolution with quadrature reflectometer measurements on DIII-D. Journal of Nuclear Materials, 2007, 363-365, 534-538.	2.7	1
150	Internal Alfvén eigenmode observations on DIII-D. Nuclear Fusion, 2006, 46, S880-S887.	3.5	37
151	Observation of confinement degradation of energetic ions due to Alfvén eigenmodes in JT-60U weak shear plasmas. Nuclear Fusion, 2006, 46, S898-S903.	3.5	16
152	2D reflectometer modelling for optimizing the ITER low-field side X-mode reflectometer system. Nuclear Fusion, 2006, 46, S846-S852.	3.5	23
153	Quantitative density fluctuation measurements utilizing quadrature reflectometers on DIII-D. Nuclear Fusion, 2006, 46, S708-S713.	3.5	21
154	Multi-tier graphical web service for simulating reflectometry in plasma. , 2006, , .		0
155	Radial Structure of Alfvén Eigenmodes in the DIII-D Tokamak through Electron-Cyclotron-Emission Measurements. Physical Review Letters, 2006, 97, 135001.	7.8	133
156	Core barrier formation near integer q surfaces in DIII-D. Physics of Plasmas, 2006, 13, 082502.	1.9	73
157	Interpretation of core localized Alfvén eigenmodes in DIII-D and Joint European Torus reversed magnetic shear plasmas. Physics of Plasmas, 2006, 13, 056104.	1.9	31
158	Multitude of Core-Localized Shear Alfvén Waves in a High-Temperature Fusion Plasma. Physical Review Letters, 2006, 96, 105006.	7.8	48
159	Interpretation of the finite pressure gradient effects in the reversed shear Alfvén eigenmode theory. Plasma Physics and Controlled Fusion, 2006, 48, 1255-1269.	2.1	33
160	Alfvén eigenmode observations on DIII-D via two-colour CO ₂ interferometry. Plasma Physics and Controlled Fusion, 2005, 47, L31-L40.	2.1	55
161	Energetic ion transport by abrupt large-amplitude event induced by negative-ion-based neutral beam injection in the JT-60U. Nuclear Fusion, 2005, 45, 1474-1480.	3.5	44
162	Internal transport barrier driven by redistribution of energetic ions. Nuclear Fusion, 2005, 45, 30-39.	3.5	32

#	ARTICLE	IF	CITATIONS
163	Experimental studies of instabilities and confinement of energetic particles on JET and MAST. Nuclear Fusion, 2005, 45, 1168-1177.	3.5	34
164	Alfvén eigenmodes in reversed shear plasmas in JT-60U negative-ion-based neutral beam injection discharges. Physics of Plasmas, 2005, 12, 082509.	1.9	40
165	Measurement of Turbulence Decorrelation during Transport Barrier Evolution in a High-Temperature Fusion Plasma. Physical Review Letters, 2005, 94, 135002.	7.8	60
166	Circuit Design to Stabilize the Reflectometer Local Oscillator Signals. , 2005, , .		0
167	Instability in the Frequency Range of Alfvén Eigenmodes Driven by Negative-Ion-Based Neutral Beams in JT-60U. Journal of Plasma and Fusion Research, 2005, 81, 547-552.	0.4	1
168	Energetic particle physics in JT-60U and JFT-2M. Plasma Physics and Controlled Fusion, 2004, 46, S31-S45.	2.1	44
169	Finite pressure effects on reversed shear Alfvén eigenmodes. Plasma Physics and Controlled Fusion, 2004, 46, L23-L29.	2.1	42
170	Alpha-Channeling Simulation Experiment in the DIII-D Tokamak. Physical Review Letters, 2004, 93, 085002.	7.8	21
171	Observation of Odd Toroidal Alfvén Eigenmodes. Physical Review Letters, 2004, 92, 015001.	7.8	39
172	Simulation of optical and synthetic imaging using microwave reflectometry. Plasma Physics and Controlled Fusion, 2004, 46, 695-710.	2.1	27
173	Monitoring Alfvén Cascades with Interferometry on the JET Tokamak. Physical Review Letters, 2004, 93, 165001.	7.8	82
174	Overview of recent experimental results from the DIII-D advanced tokamak program. Nuclear Fusion, 2003, 43, 1555-1569.	3.5	13
175	Relationship between particle and heat transport in JT-60U plasmas with internal transport barrier. Nuclear Fusion, 2003, 43, 1235-1245.	3.5	75
176	New Interpretation of Alpha-Particle-Driven Instabilities in Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor. Physical Review Letters, 2003, 91, 125003.	7.8	83
177	Correlation reflectometry for turbulence and magnetic field measurements in fusion plasmas (invited). Review of Scientific Instruments, 2003, 74, 1421-1425.	1.3	27
178	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
179	Overview of JT-60U results leading to high integrated performance in reactor-relevant regimes. Nuclear Fusion, 2003, 43, 1527-1539.	3.5	32
180	Study of thermonuclear Alfvén instabilities in next step burning plasma proposals. Nuclear Fusion, 2003, 43, 594-605.	3.5	60

#	ARTICLE	IF	CITATIONS
181	Overview of recent Alcator C-Mod research. Nuclear Fusion, 2003, 43, 1610-1618.	3.5	7
182	Radial patterns of instability and transport in JT-60U internal transport barrier discharges. Nuclear Fusion, 2002, 42, 403-411.	3.5	9
183	Two-dimensional simulations of correlation reflectometry in fusion plasmas. Plasma Physics and Controlled Fusion, 2002, 44, L1-L10.	2.1	56
184	Recent progress of Alfvén eigenmode experiments using N-NB in JT-60U tokamak. Nuclear Fusion, 2002, 42, 942-948.	3.5	52
185	Compressional Alfvén eigenmode instability in NSTX. Nuclear Fusion, 2002, 42, 977-985.	3.5	42
186	Effects of two-dimensional and finite density fluctuations on O-X correlation reflectometry. Plasma Physics and Controlled Fusion, 2002, 44, L11-L19.	2.1	13
187	A tutorial on the basic principles of microwave reflectometry applied to fluctuation measurements in fusion plasmas. Physics of Plasmas, 2001, 8, 1840-1855.	1.9	106
188	Overview of recent Alcator C-Mod results. Nuclear Fusion, 2001, 41, 1391-1400.	3.5	13
189	Alfvén eigenmodes driven by Alfvénic beam ions in JT-60U. Nuclear Fusion, 2001, 41, 603-612.	3.5	93
190	Magnetic safety factor profile before and after sawtooth crashes investigated with toroidicity and ellipticity induced Alfvén eigenmodes. Nuclear Fusion, 2001, 41, 1135-1151.	3.5	37
191	Plasma curvature effects on microwave reflectometry fluctuation measurements. Plasma Physics and Controlled Fusion, 2001, 43, L1-L8.	2.1	59
192	Two-dimensional full-wave simulation of microwave reflectometry on Alcator C-Mod. Review of Scientific Instruments, 2001, 72, 344-347.	1.3	8
193	Measurements and scalings of the H-mode pedestal on Alcator C-Mod. Plasma Physics and Controlled Fusion, 2000, 42, A255-A262.	2.1	8
194	Alpha particle physics experiments in the Tokamak Fusion Test Reactor. Nuclear Fusion, 2000, 40, 91-149.	3.5	93
195	ICRF heating and profile control techniques in TFTR. Nuclear Fusion, 2000, 40, 461-466.	3.5	21
196	Zonal flow measurements concept I. Plasma Physics and Controlled Fusion, 2000, 42, A205-A210.	2.1	101
197	Fast particle experiments in JT-60U. Nuclear Fusion, 2000, 40, 1383-1396.	3.5	47
198	Stability properties of toroidal Alfvén modes driven by fast particles. Nuclear Fusion, 2000, 40, 1311-1323.	3.5	26

#	ARTICLE	IF	CITATIONS
199	Energetic particle transport and alpha driven instabilities in advanced confinement DT plasmas on TFTR. Nuclear Fusion, 1999, 39, 1309-1319.	3.5	11
200	Characteristics of Alfvén eigenmodes, burst modes and chirping modes in the Alfvén frequency range driven by negative ion based neutral beam injection in JT-60U. Nuclear Fusion, 1999, 39, 1837-1843.	3.5	74
201	Numerical study of the nonlinear evolution of toroidicity-induced Alfvén eigenmodes. Physics of Plasmas, 1999, 6, 226-237.	1.9	25
202	Upgrade of reflectometry profile and fluctuation measurements in Alcator C-Mod. Review of Scientific Instruments, 1999, 70, 1078-1081.	1.3	28
203	Frequency Chirping of Core-Localized Toroidicity-Induced Alfvén Eigenmodes and their Coupling to Global Alfvén Eigenmodes. Physical Review Letters, 1999, 83, 2961-2964.	7.8	24
204	Core correlation reflectometer at the JT-60U tokamak. Review of Scientific Instruments, 1999, 70, 4246-4250.	1.3	33
205	Role of Alfvén instabilities in energetic ion transport. Physics of Plasmas, 1999, 6, 1880-1884.	1.9	33
206	Fusion performance analysis of plasmas with reversed magnetic shear in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1999, 6, 3247-3262.	1.9	1
207	The determination of the q -profile in the plasma core from Alfvén eigenmodes. Plasma Physics and Controlled Fusion, 1998, 40, 863-869.	2.1	14
208	Ion cyclotron range of frequencies heating and flow generation in deuterium–tritium plasmas. Physics of Plasmas, 1998, 5, 1721-1726.	1.9	45
209	Triton burnup measurements and calculations on TFTR. Nuclear Fusion, 1998, 38, 597-618.	3.5	20
210	ICRF results in D-T plasmas in JET and TFTR and implications for ITER. Plasma Physics and Controlled Fusion, 1998, 40, A87-A103.	2.1	22
211	Mode structure of disruption precursors in TFTR enhanced reversed shear discharges. Nuclear Fusion, 1998, 38, 1149-1160.	3.5	7
212	Toroidal Alfvén eigenmodes driven with ICRF accelerated protons in JT-60U negative shear discharges. Nuclear Fusion, 1998, 38, 1215-1223.	3.5	48
213	Fusion plasma experiments on TFTR: A 20 year retrospective. Physics of Plasmas, 1998, 5, 1577-1589.	1.9	91
214	Alpha particle-driven toroidal Alfvén eigenmodes in Tokamak Fusion Test Reactor deuterium–tritium plasmas: Theory and experiments. Physics of Plasmas, 1998, 5, 4284-4291.	1.9	20
215	Toroidal Alfvén eigenmodes in TFTR deuterium–tritium plasmas. Physics of Plasmas, 1998, 5, 1703-1711.	1.9	33
216	TFTR DT experiments. Plasma Physics and Controlled Fusion, 1997, 39, B103-B114.	2.1	35

#	ARTICLE	IF	CITATIONS
217	Pellet fuelled enhanced confinement ICRH discharges in TFTR. Nuclear Fusion, 1997, 37, 127-144.	3.5	17
218	Observations of neutral beam and ICRF tail ion losses due to Alfvén modes in TFTR. Nuclear Fusion, 1997, 37, 939-954.	3.5	43
219	Alpha-particle physics in the tokamak fusion test reactor DT experiment. Plasma Physics and Controlled Fusion, 1997, 39, A275-A283.	2.1	23
220	Deuterium–tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1714-1724.	1.9	27
221	Calibration and test of the tangential phase contrast imaging diagnostic on CDX-U. Review of Scientific Instruments, 1997, 68, 1206-1216.	1.3	5
222	The role of the neutral beam fueling profile in the performance of the Tokamak Fusion Test Reactor and other tokamak plasmas. Physics of Plasmas, 1997, 4, 1699-1706.	1.9	12
223	Application of microwave reflectometry to the measurement of fast magnetosonic waves in the Tokamak Fusion Test Reactor. Review of Scientific Instruments, 1997, 68, 450-453.	1.3	5
224	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
225	Symmetric sideband correlations and the random phase screen approximation. Journal of Modern Optics, 1997, 44, 1037-1044.	1.3	7
226	Alpha-Particle-Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor. Physical Review Letters, 1997, 78, 2976-2979.	7.8	118
227	IBW and fast wave launching and damping on TFTR. , 1997, , .		0
228	Recent radio frequency experiments in TFTR. , 1997, , .		2
229	Plasma wall interaction and tritium retention in TFTR. Journal of Nuclear Materials, 1997, 241-243, 214-226.	2.7	39
230	Symmetric sideband correlations and the random phase screen approximation. Journal of Modern Optics, 1997, 44, 1037-1044.	1.3	3
231	Analysis of alpha particle–driven toroidal Alfvén eigenmodes in Tokamak Fusion Test Reactor deuterium–tritium experiments. Physics of Plasmas, 1996, 3, 4036-4045.	1.9	75
232	Review of D-T Results from TFTR. Fusion Science and Technology, 1996, 30, 648-659.	0.6	3
233	Mode conversion experiments in TFTR. , 1996, , .		1
234	Turbulent Fluctuations in TFTR Configurations with Reversed Magnetic Shear. Physical Review Letters, 1996, 77, 3145-3148.	7.8	178

#	ARTICLE	IF	CITATIONS
235	High-frequency core localized modes in neutral beam heated plasmas on TFTR. Physics of Plasmas, 1996, 3, 593-605.	1.9	33
236	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
237	First Evidence of Collective Alpha Particle Effect on Toroidal Alfvén Eigenmodes in the TFTR D-T Experiment. Physical Review Letters, 1996, 76, 2286-2289.	7.8	33
238	Search for alpha driven TAEs at lowered ion temperature in TFTR DT discharges. Nuclear Fusion, 1996, 36, 987-1008.	3.5	12
239	Search for alpha driven BAEs in TFTR. Nuclear Fusion, 1996, 36, 1725-1731.	3.5	5
240	Recent D-T results on TFTR. Plasma Physics and Controlled Fusion, 1995, 37, A69-A85.	2.1	22
241	Deuterium-tritium experiments on TFTR. AIP Conference Proceedings, 1995, , .	0.4	0
242	Plasma-surface interactions in TFTR DT experiments. Journal of Nuclear Materials, 1995, 220-222, 62-72.	2.7	18
243	Instruments, 1995, 66, 1180-1183.	1.3	3
244	Scientific Instruments, 1995, 66, 590-590.	1.3	0
245	Effects of turbulent fluctuations on density measurements with microwave reflectometry in	1.3	0
246	Stability Analysis of Toroidicity-Induced Alfvén Eigenmodes in TFTR Deuterium-Tritium Experiments. Physical Review Letters, 1995, 75, 2336-2339.	7.8	54
247	Effects of turbulent fluctuations on density measurements with microwave reflectometry in	1.3	28
248	Reflectometer measurements of density fluctuations in tokamak plasmas (invited). Review of Scientific Instruments, 1995, 66, 392-398.	1.3	88
249	Observation of new branch of toroidal Alfvén eigenmodes in TFTR. Nuclear Fusion, 1995, 35, 1457-1461.	3.5	18
250	Experimental study of toroidicity induced Alfvén eigenmode (TAE) stability at high $q(0)$. Nuclear Fusion, 1995, 35, 1463-1468.	3.5	15
251	Alfvén frequency modes at the edge of TFTR plasmas. Nuclear Fusion, 1995, 35, 1469-1479.	3.5	40
252	Isotopic scaling of confinement in deuterium-tritium plasmas. Physics of Plasmas, 1995, 2, 2299-2307.	1.9	57

#	ARTICLE	IF	CITATIONS
253	Deuterium–tritium high confinement (H-mode) studies in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2366-2374.	1.9	26
254	Review of deuterium–tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	1.9	89
255	I^2 limit disruptions in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 4216-4229.	1.9	37
256	Ion cyclotron range of frequencies heating and current drive in deuterium–tritium plasmas. Physics of Plasmas, 1995, 2, 2427-2434.	1.9	35
257	Overview of DT results from TFTR. Nuclear Fusion, 1995, 35, 1429-1436.	3.5	41
258	Density fluctuations associated with limiter H-Modes on TFTR. Plasma Physics and Controlled Fusion, 1994, 36, A141-A146.	2.1	5
259	Deuterium and tritium experiments on TFTR. Plasma Physics and Controlled Fusion, 1994, 36, B3-B15.	2.1	18
260	Preparations for deuterium–tritium experiments on the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1560-1567.	1.9	7
261	Fusion power production from TFTR plasmas fueled with deuterium and tritium. Physical Review Letters, 1994, 72, 3526-3529.	7.8	130
262	Confinement and heating of a deuterium-tritium plasma. Physical Review Letters, 1994, 72, 3530-3533.	7.8	90
263	Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor. Fusion Science and Technology, 1994, 26, 389-398.	0.6	10
264	Ion cyclotron range of frequency heating on the Tokamak Fusion Test Reactor*. Physics of Fluids B, 1993, 5, 2437-2444.	1.7	8
265	Radial scale length of turbulent fluctuations in the main core of TFTR plasmas. Physical Review Letters, 1993, 71, 1840-1843.	7.8	132
266	Preliminary results of the ORNL swept dual-frequency X-mode reflectometer for TFTR. , 1993, , .		0
267	Fluctuation measurements in the plasma interior on TFTR. Plasma Physics and Controlled Fusion, 1992, 34, 1993-1999.	2.1	36
268	Modulational sources, sideband correlations and nonstationary interference for waves scattered	1.3	5
269	Modulational sources, sideband correlations and nonstationary interference in waves scattered	1.3	0
270	Investigation of global Alfvén instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.7	37

#	ARTICLE	IF	CITATIONS
271	Status and Plans for TFTR. Fusion Science and Technology, 1992, 21, 1324-1331.	0.6	23
272	Measurements of long-wavelength density fluctuations in TFTR. Physics of Fluids B, 1992, 4, 2922-2928.	1.7	31
273	Fluctuation measurements in the plasma interior on TFTR. Plasma Physics and Controlled Fusion, 1992, 34, 1993-1999.	2.1	6
274	Comparison of steady-state and perturbative transport coefficients in TFTR. Physics of Fluids B, 1991, 3, 2315-2323.	1.7	29
275	Microwave reflectometry for the study of density fluctuations in tokamak plasmas. Plasma Physics and Controlled Fusion, 1991, 33, 261-274.	2.1	81
276	Overview of TFTR transport studies. Plasma Physics and Controlled Fusion, 1991, 33, 1509-1536.	2.1	59
277	Excitation of toroidal Alfvén eigenmodes in TFTR. Physical Review Letters, 1991, 66, 1874-1877.	7.8	342
278	ELM activity during limiter H-modes on TFTR. Journal of Nuclear Materials, 1990, 176-177, 711-715.	2.7	3
279	Application of correlation techniques to the angular spectrum of scattered radiation from tokamak plasmas. Review of Scientific Instruments, 1990, 61, 3004-3006.	1.3	4
280	Application of TFTR diagnostics to study of limiter H modes (abstract). Review of Scientific Instruments, 1990, 61, 3307-3307.	1.3	0
281	Instrumental aspects of extraordinary mode scattering on TFTR. Review of Scientific Instruments, 1990, 61, 3031-3033.	1.3	18
282	Application of TFTR diagnostics to study of limiter H-modes. Review of Scientific Instruments, 1990, 61, 3532-3535.	1.3	1
283	Scintillation measurement of density fluctuations in a tokamak plasma (abstract). Review of Scientific Instruments, 1990, 61, 3071-3071.	1.3	0
284	A proposed diagnostic for time-resolved 14 MeV neutron measurements on TFTR. Review of Scientific Instruments, 1990, 61, 3193-3195.	1.3	0
285	A toroidal projection CO ₂ laser imaging system for PBX-M. Review of Scientific Instruments, 1990, 61, 2899-2901.	1.3	7
286	CO ₂ laser scintillation interferometer for the measurement of density fluctuations in plasma confinement devices. Review of Scientific Instruments, 1987, 58, 2086-2091.	1.3	17
287	TFTR microwave reflectometer diagnostic. , 0, , .		0