E D Fredrickson

List of Publications by Year
in descending order

125	5,044	98825	103101
papers	citations	36 h-index	66 g-index

131	131	131	6127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The emerging spectrum of COVID-19 neurology: clinical, radiological and laboratory findings. Brain, 2020, 143, 3104-3120.	8.0	923
2	Observation of Nonlinear Neoclassical Pressure-Gradientâ€“Driven Tearing Modes in TFTR. Physical Review Letters, 1995, 74, 4663-4666.	8.0	368
3	Direct Observation of the Resistive Wall Mode in a Tokamak and Its Interaction with Plasma Rotation. Physical Review Letters, 1999, 82, 3811-3814.	8.0	152
4	Off-Axis Sawteeth and Double-Tearing Reconnection in Reversed Magnetic Shear Plasmas in TFTR. Physical Review Letters, 1996, 77, 3553-3556.	8.0	147
5	Intense Geodesic Acousticlike Modes Driven by Suprathermal Ions in a Tokamak Plasma. Physical Review Letters, 2008, 101, 185001.	8.0	134
6	Depression in palliative care: a pragmatic report from the Expert Working Group of the European Association for Palliative Care. Supportive Care in Cancer, 2001, 9, 477-488.	2.3	132
7	Deoxynucleic Acids from Cryptococcus neoformans Activate Myeloid Dendritic Cells via a TLR9-Dependent Pathway. Journal of Immunology, 2008, 180, 4067-4074.	0.8	103
8	Fast particle finite orbit width and Larmor radius effects on low-n toroidicity induced AlfvÃ©n eigenmode excitation. Physics of Plasmas, 1999, 6, 2802-2807.	1.9	102
9	Fusion plasma experiments on TFTR: A 20 year retrospective. Physics of Plasmas, 1998, 5, 1577-1589.	1.9	94
10	Measurements and modeling of AlfvÃ©n eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade. Physics of Plasmas, 2011, 18, .	1.9	94
11	Memory illusions: False recall and recognition in adults with Asperger's syndrome.. Journal of Abnormal Psychology, 2000, 109, 663-672.	2.3	90
12	Collective fast ion instability-induced losses in National Spherical Tokamak Experiment. Physics of Plasmas, 2006, 13, 056109.	1.9	89
13	Chapter 2: Magnetic Diagnostics. Fusion Science and Technology, 2008, 53, 304-334.	1.1	82
14	Observation of Compressional AlfvÃ©n Modes During Neutral-Beam Heating on the National Spherical Torus Experiment. Physical Review Letters, 2001, 87, 145001.	8.0	80
15	Beta-induced AlfvÃ©n-acoustic eigenmodes in National Spherical Torus Experiment and DIII-D driven by beam ions. Physics of Plasmas, 2009, 16, .	1.9	77
16	Tomography of full sawtooth crashes on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1996, 3, 1647-1655.	1.9	67
17	A threshold for excitation of neoclassical tearing modes. Physics of Plasmas, 1996, 3, 3379-3385.	1.9	63
18	Modeling fast-ion transport during toroidal AlfvÃ©n eigenmode avalanches in National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, 122505.	1.9	60

#	Article	IF	Citations
19	Excitation of AlfvÃ©n cyclotron instability by charged fusion products in tokamaks. Physics of Plasmas, 1995, 2, 1961-1971.	1.9	58
20	Wave driven fast ion loss in the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 2852-2862.	1.9	58
21	Experimental studies on fast-ion transport by AlfvÃ©n wave avalanches on the National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, .	1.9	58
22	Estimation of greenhouse gas (GHG) emission and energy use efficiency (EUE) analysis in rainfed canola production (case study: Golestan province, Iran). Energy, 2016, 116, 694-700.	9.0	53
23	Making it Rain: Cloud-Based Molecular Simulations for Everyone. Journal of Chemical Information and Modeling, 2021, 61, 4852-4856.	5.7	53
24	Observation of spontaneous neoclassical tearing modes. Physics of Plasmas, 2002, 9, 548-559.	1.9	48
25	West Nile and Usutu Virus Infections and Challenges to Blood Safety in the European Union. Emerging Infectious Diseases, 2019, 25, 1050-1057.	4.4	44
26	Antibody Conjugated, Raman Tagged Hollow Goldâ€“Silver Nanospheres for Specific Targeting and Multimodal Dark-Field/SERS/Two Photon-FLIM Imaging of CD19(+) B Lymphoblasts. ACS Applied Materials & Interfaces, 2017, 9, 21155-21168.	8.3	43
27	AlfvÃ©n eigenmodes in reversed shear plasmas in JT-60U negative-ion-based neutral beam injection discharges. Physics of Plasmas, 2005, 12, 082509.	1.9	42
28	Î² suppression of AlfvÃ©n cascade modes in the National Spherical Torus Experiment. Physics of Plasmas, 2007, 14, .	1.9	41
29	The internal kink mode in an anisotropic flowing plasma with application to modeling neutral beam injected sawtoothing discharges. Physics of Plasmas, 2003, 10, 1034-1047.	1.9	39
30	1.5D quasilinear model and its application on beams interacting with AlfvÃ©n eigenmodes in DIII-D. Physics of Plasmas, 2012, 19, .	1.9	39
31	Investigation of global AlfvÃ©n instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.8	38
32	Î² limit disruptions in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 4216-4229.	1.9	37
33	Neoclassical tearing modes in Tokamak Fusion Test Reactor experiments. I. Measurements of magnetic islands and Î”â€². Physics of Plasmas, 1998, 5, 1076-1084.	1.9	37
34	Coupling of global toroidal AlfvÃ©n eigenmodes and reversed shear AlfvÃ©n eigenmodes in DIII-D. Physics of Plasmas, 2007, 14, 056102.	1.9	37
35	Transport with reversed shear in the National Spherical Torus Experiment. Physics of Plasmas, 2007, 14, 056119.	1.9	37
36	Beam ion driven instabilities in the National Spherical Tokamak Experiment. Physics of Plasmas, 2004, 11, 2586-2593.	1.9	36

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37	Characterization of small, Type V edge-localized modes in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 092510.	1.9	36
38	Effect of plasma shaping on performance in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 056122.	1.9	34
39	Measurements of the radial structure and poloidal spectra of toroidal AlfvÃ©n eigenmodes in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 3707-3712.	1.8	33
40	Highâ€frequency core localized modes in neutral beam heated plasmas on TFTR. Physics of Plasmas, 1996, 3, 593-605.	1.9	33
41	Toroidal AlfvÃ©n eigenmodes in TFTR deuteriumâ€“tritium plasmas. Physics of Plasmas, 1998, 5, 1703-1711.	1.9	33
42	Role of AlfvÃ©n instabilities in energetic ion transport. Physics of Plasmas, 1999, 6, 1880-1884.	1.9	33
43	Excitation of AlfvÃ©n eigenmodes by low energy beam ions in the DIII-D and JET tokamaks. Physics of Plasmas, 2008, 15, 056107.	1.9	33
44	Nature of Monster Sawteeth and Their Relationship to AlfvÃ©n Instabilities in Tokamaks. Physical Review Letters, 2000, 84, 1212-1215.	8.0	32
45	Cinnamic aldehyde treatment alleviates chronic unexpected stress-induced depressive-like behaviors via targeting cyclooxygenase-2 in mid-aged rats. Journal of Ethnopharmacology, 2015, 162, 97-103.	4.2	32
46	Measuring Î”â€² from electron temperature fluctuations in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1998, 5, 450-454.	1.9	31
47	Energetic particle-driven compressional AlfvÃ©n eigenmodes and prospects for ion cyclotron emission studies in fusion plasmas. New Journal of Physics, 2016, 18, 105010.	2.9	31
48	Anomalous losses of deuteriumâ€“deuterium fusion products in the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1469-1478.	1.9	29
49	Examination of treatment pattern differences by race. Administration and Policy in Mental Health and Mental Health Services Research, 2003, 5, 241-250.	2.3	28
50	Phenomenology of compressional AlfvÃ©n eigenmodes. Physics of Plasmas, 2004, 11, 3653-3659.	1.9	28
51	Deuteriumâ€“tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1714-1724.	1.9	27
52	H-mode threshold and dynamics in the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1755-1764.	1.9	27
53	Modeâ€“particle resonances during nearâ€tangential neutral beam injection in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1990, 2, 1584-1588.	1.8	26
54	First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR Deuterium-Tritium Experiments. Physical Review Letters, 1996, 76, 1071-1074.	8.0	26

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55	Alpha particle losses from Tokamak Fusion Test Reactor deuteriumâ€“tritium plasmas. Physics of Plasmas, 1996, 3, 1875-1880.	1.9	25
56	HINST: A two-dimensional code for high-n toroidicity induced AlfvÃ©n eigenmodes stability. Physics of Plasmas, 1998, 5, 3389-3397.	1.9	25
57	Emission in the ion cyclotron range of frequencies (ICE) on NSTX and NSTX-U. Physics of Plasmas, 2019, 26, .	1.9	25
58	Tokamak Fusion Test Reactor charge exchange atom spectrometry using a natural diamond detector. Review of Scientific Instruments, 1999, 70, 1107-1110.	1.4	24
59	Saturation of alpha particle driven instability in Tokamak Fusion Test Reactor. Physics of Plasmas, 1999, 6, 629-632.	1.9	24
60	Electro-osmotically controllable multi-flow microreactor. Microfluidics and Nanofluidics, 2005, 1, 242-248.	2.2	24
61	Nonlinear simulations of beam-driven compressional AlfvÃ©n eigenmodes in NSTX. Physics of Plasmas, 2017, 24, .	1.9	23
62	Investigation of ballooning modes in high poloidal beta plasmas in the Tokamak Fusion Test Reactor*. Physics of Fluids B, 1993, 5, 2571-2577.	1.8	22
63	Tomography of (2, 1) and (3, 2) magnetic island structures on Tokamak Fusion Test Reactor. Physics of Plasmas, 1996, 3, 2631-2640.	1.9	22
64	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. Physics of Plasmas, 1999, 6, 2430-2436.	1.9	21
65	The effectiveness of insulin initiation regimens in patients with type 2 diabetes mellitus: a large national medical records review study comparing a basal insulin analogue to premixed insulin. Current Medical Research and Opinion, 2007, 23, 3017-3023.	2.0	20
66	AlfvÃ©n cascade modes at high Î² in the National Spherical Torus Experiment. Physics of Plasmas, 2008, 15, .	1.9	20
67	Image reconstructions of ECE and xâ€ray signals for high Î² plasmas on TFTR. Review of Scientific Instruments, 1990, 61, 3265-3267.	1.4	19
68	Compressional AlfvÃ©n eigenmode dispersion in low aspect ratio plasmas. Physics of Plasmas, 2002, 9, 3483-3488.	1.9	19
69	Non-linear modulation of short wavelength compressional AlfvÃ©n eigenmodes. Physics of Plasmas, 2013, 20, 042112.	1.9	19
70	Effects of toroidal rotation shear on toroidicity-induced AlfvÃ©n eigenmodes in the National Spherical Torus Experiment. Physics of Plasmas, 2010, 17, 122501.	1.9	18
71	Numerical study of AlfvÃ©n eigenmodes in the Experimental Advanced Superconducting Tokamak. Physics of Plasmas, 2014, 21, .	1.9	18
72	Highâ€Qplasmas in the TFTR tokamak. Physics of Fluids B, 1991, 3, 2308-2314.	1.8	17

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73	Class-specific responses of brown adipose tissue to steroidal and nonsteroidal mineralocorticoid receptor antagonists. Journal of Endocrinological Investigation, 2022, 45, 215-220.	3.4	17
74	The stability of advanced operational regimes on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1589-1595.	1.9	16
75	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
76	Trapped electron stabilization of ballooning modes in low aspect ratio toroidal plasmas. Physics of Plasmas, 2004, 11, 4784-4795.	1.9	15
77	Comparing the line broadened quasilinear model to Vlasov code. Physics of Plasmas, 2014, 21, .	1.9	15
78	Ion cyclotron emission studies: Retrospects and prospects. Plasma Physics Reports, 2016, 42, 430-439.	0.9	15
79	Numerical simulations of global AlfvÃ©n eigenmodes excitation and stabilization in NSTX-U. Physics of Plasmas, 2019, 26, .	1.9	15
80	MeV ion confinement in the TFTR tokamak. Physics of Fluids B, 1990, 2, 1411-1414.	1.8	14
81	Hepatitis B virus reactivation in a myeloma patient with resolved infection who received daratumumab-containing salvage chemotherapy. Journal of Clinical and Experimental Hematopathology: JCEH, 2020, 60, 51-54.	0.8	14
82	Identification of a tripartite import signal in the Ewing Sarcoma protein (EWS). Biochemical and Biophysical Research Communications, 2009, 390, 1197-1201.	2.2	13
83	Resonances between high energy particles and ideal magnetohydrodynamic modes in tokamaks. Physics of Plasmas, 2018, 25, .	1.9	13
84	A polarized view on DNA under tension. Journal of Chemical Physics, 2018, 148, 123306.	3.1	13
85	Confinement analysis in lowâ€confinement mode of hydrogen isotope experiments on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1996, 3, 4521-4535.	1.9	12
86	Comparison of methods for numerical calculation of continuum damping. Physics of Plasmas, 2014, 21, .	1.9	12
87	Hydrocarbon accumulation in deep fluid modified carbonate rock in the Tarim Basin. Science Bulletin, 2007, 52, 184-192.	1.6	11
88	Double-Gap AlfvÃ©n Eigenmodes: Revisiting Eigenmode Interaction with the AlfvÃ©n Continuum. Physical Review Letters, 2005, 95, 265003.	8.0	10
89	Compact and multi-view solid state neutral particle analyzer arrays on National Spherical Torus Experiment-Upgrade. Review of Scientific Instruments, 2016, 87, 11D803.	1.4	10
90	Verification and application of resonance broadened quasi-linear (RBQ) model with multiple AlfvÃ©nic instabilities. Physics of Plasmas, 2019, 26, .	1.9	10

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91	Experiments utilizing ion cyclotron range of frequencies heating on the TFTR tokamak. Physics of Fluids B, 1991, 3, 2270-2276.	1.8	9
92	Agriculture in the Uruguay Round: An Assessment. Economic Journal, 1993, 103, 1513.	3.5	9
93	Collisional enhancement of energetic particle AlfvÃ©nic resonance width in tokamaks. Physics of Plasmas, 2019, 26, 032508.	1.9	9
94	Physics Basis for an Advanced Physics and Advanced Technology Tokamak Power Plant Configuration: ARIES-ACT1. Fusion Science and Technology, 2015, 67, 75-106.	1.1	8
95	Modeling of chirping toroidal AlfvÃ©n eigenmodes in NSTX. Physics of Plasmas, 2019, 26, 092103.	1.9	8
96	Simulation of AlfvÃ©nic avalanche onset in NSTX. Physics of Plasmas, 2020, 27, 022117.	1.9	8
97	Three-wave interactions between fast-ion driven modes in the National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, .	1.9	7
98	Phase space effects on fast ion distribution function modeling in tokamaks. Physics of Plasmas, 2016, 23, .	1.9	7
99	Compressional AlfvÃ©n eigenmodes in rotating spherical tokamak plasmas. Plasma Physics and Controlled Fusion, 2017, 59, 035007.	2.1	7
100	Phase-space dynamics of AlfvÃ©n mode chirping. Physics of Plasmas, 2020, 27, 052108.	1.9	7
101	MHD-blob correlations in NSTX. Physics of Plasmas, 2020, 27, .	1.9	6
102	Properties of AlfvÃ©n eigenmodes in the Toroidal AlfvÃ©n Eigenmode range on the National Spherical Torus Experiment-Upgrade. Physics of Plasmas, 2013, 20, .	1.9	5
103	Anomalous fast ion losses at high Î² on the tokamak fusion test reactor. Physics of Plasmas, 2015, 22, 032501.	1.9	5
104	Analytic stability boundaries for compressional and global AlfvÃ©n eigenmodes driven by fast ions. II. Interaction via Landau resonance. Physics of Plasmas, 2020, 27, 022512.	1.9	5
105	Exertional sodium loss does not increase immediate salt appetite or dietary sodium intake in athletes. Appetite, 2021, 162, 105181.	4.0	5
106	Deep learning based resource forecasting for 5G core network scaling in Kubernetes environment. , 2022, , .		5
107	Parametric variations of ion transport in TFTR. AIP Conference Proceedings, 1994, , .	1.0	3
108	Lowâ€frequency MHD diagnostics on TFTR. Review of Scientific Instruments, 1990, 61, 3025-3027.	1.4	2

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109	Decreased salinity effects in Lake Kinneret (Israel). Hydrobiologia, 1992, 228, 231-237.	2.0	2
110	Geodesic modes driven by untrapped resonances of NB energetic ions in tokamaks. Physics of Plasmas, 2019, 26, 102508.	1.9	2
111	Impact of edge harmonic oscillations on the divertor heat flux in NSTX. Physics of Plasmas, 2022, 29, 012503.	1.9	2
112	On the frequency bifurcations of the MHD startup modes in NSTX. Physics of Plasmas, 2023, 30, .	1.9	2
113	Arterial plaque removal with an electrostatic microactuator. , 1995, , .		1
114	Kinetic theory of plasma adiabatic major radius compression in tokamaks. Physics of Plasmas, 1998, 5, 1345-1353.	1.9	1
115	Tearing Mode Stability of Model Plasmas in NCSX. Fusion Science and Technology, 2007, 51, 232-237.	1.1	1
116	Comment on â€œTheory of AlfvÃ©n-slow frequency gaps and discovery of AlfvÃ©n-slow eigenmodes in tokamaksâ€•[Phys. Plasmas 26, 082508 (2019)]. Physics of Plasmas, 2021, 28, 074701.	1.9	1
117	Correlation between excitation of Alfvèn modes and degradation of ICRF heating efficiency in TFTR. AIP Conference Proceedings, 1997, , .	1.0	0
118	Stochastic RF Heating of Thermal Ions. AIP Conference Proceedings, 2007, , .	1.0	0
119	Use of Fast Ion D-Alpha diagnostics for understanding ICRF effects. AIP Conference Proceedings, 2009, , .	1.0	0
120	Digital audio watermarking based on holographic nonlinear limiter. , 2011, , .		0
121	Excitation of Alfvèn modes by energetic particles in magnetic fusion. AIP Conference Proceedings, 2012, , .	1.0	0
122	The Sawtooth Oscillation Effect on Fast-Ion Energy Spectra in ITER Plasma and Neutral Particle Analyzer Measurements. Doklady Physics, 2018, 63, 100-103.	0.8	0
123	Interactions between doripenem and NDM metalloâ€Î²â€lactamases as inspiration for future generation antibiotics. FASEB Journal, 2019, 33, 483.13.	0.5	0
124	Design of small and lightweight all-terrain octopod robot. , 2023, , .		0
125	Nonlinear simulations of GAEs in NSTX-U. Physics of Plasmas, 2024, 31, .	1.9	0