

# E D Fredrickson

## List of Publications by Year in descending order

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125  
papers

5,044  
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98825

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docs citations

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times ranked

6127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear simulations of GAEs in NSTX-U. <i>Physics of Plasmas</i> , 2024, 31, .	1.9	0
2	On the frequency bifurcations of the MHD startup modes in NSTX. <i>Physics of Plasmas</i> , 2023, 30, .	1.9	2
3	Design of small and lightweight all-terrain octopod robot. , 2023, , .		0
4	Class-specific responses of brown adipose tissue to steroidal and nonsteroidal mineralocorticoid receptor antagonists. <i>Journal of Endocrinological Investigation</i> , 2022, 45, 215-220.	3.4	17
5	Impact of edge harmonic oscillations on the divertor heat flux in NSTX. <i>Physics of Plasmas</i> , 2022, 29, 012503.	1.9	2
6	Deep learning based resource forecasting for 5G core network scaling in Kubernetes environment. , 2022, , .		5
7	Comment on "Theory of Alfvén-slow frequency gaps and discovery of Alfvén-slow eigenmodes in tokamaks" [Phys. Plasmas 26, 082508 (2019)]. <i>Physics of Plasmas</i> , 2021, 28, 074701.	1.9	1
8	Exertional sodium loss does not increase immediate salt appetite or dietary sodium intake in athletes. <i>Appetite</i> , 2021, 162, 105181.	4.0	5
9	Making it Rain: Cloud-Based Molecular Simulations for Everyone. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4852-4856.	5.7	53
10	MHD-blob correlations in NSTX. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
11	Hepatitis B virus reactivation in a myeloma patient with resolved infection who received daratumumab-containing salvage chemotherapy. <i>Journal of Clinical and Experimental Hematopathology: JCEH</i> , 2020, 60, 51-54.	0.8	14
12	Phase-space dynamics of Alfvén mode chirping. <i>Physics of Plasmas</i> , 2020, 27, 052108.	1.9	7
13	Simulation of Alfvénic avalanche onset in NSTX. <i>Physics of Plasmas</i> , 2020, 27, 022117.	1.9	8
14	Analytic stability boundaries for compressional and global Alfvén eigenmodes driven by fast ions. II. Interaction via Landau resonance. <i>Physics of Plasmas</i> , 2020, 27, 022512.	1.9	5
15	The emerging spectrum of COVID-19 neurology: clinical, radiological and laboratory findings. <i>Brain</i> , 2020, 143, 3104-3120.	8.0	923
16	Verification and application of resonance broadened quasi-linear (RBQ) model with multiple Alfvénic instabilities. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	10
17	Geodesic modes driven by untrapped resonances of NB energetic ions in tokamaks. <i>Physics of Plasmas</i> , 2019, 26, 102508.	1.9	2
18	Modeling of chirping toroidal Alfvén eigenmodes in NSTX. <i>Physics of Plasmas</i> , 2019, 26, 092103.	1.9	8

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19	Numerical simulations of global Alfvén eigenmodes excitation and stabilization in NSTX-U. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
20	West Nile and Usutu Virus Infections and Challenges to Blood Safety in the European Union. <i>Emerging Infectious Diseases</i> , 2019, 25, 1050-1057.	4.4	44
21	Collisional enhancement of energetic particle Alfvénic resonance width in tokamaks. <i>Physics of Plasmas</i> , 2019, 26, 032508.	1.9	9
22	Emission in the ion cyclotron range of frequencies (ICE) on NSTX and NSTX-U. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	25
23	Interactions between doripenem and NDM metallo-β-lactamases as inspiration for future generation antibiotics. <i>FASEB Journal</i> , 2019, 33, 483.13.	0.5	0
24	Resonances between high energy particles and ideal magnetohydrodynamic modes in tokamaks. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	13
25	The Sawtooth Oscillation Effect on Fast-Ion Energy Spectra in ITER Plasma and Neutral Particle Analyzer Measurements. <i>Doklady Physics</i> , 2018, 63, 100-103.	0.8	0
26	A polarized view on DNA under tension. <i>Journal of Chemical Physics</i> , 2018, 148, 123306.	3.1	13
27	Compressional Alfvén eigenmodes in rotating spherical tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 035007.	2.1	7
28	Nonlinear simulations of beam-driven compressional Alfvén eigenmodes in NSTX. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	23
29	Antibody Conjugated, Raman Tagged Hollow Gold-Silver Nanospheres for Specific Targeting and Multimodal Dark-Field/SERS/Two Photon-FLIM Imaging of CD19(+) B Lymphoblasts. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21155-21168.	8.3	43
30	Compact and multi-view solid state neutral particle analyzer arrays on National Spherical Torus Experiment-Upgrade. <i>Review of Scientific Instruments</i> , 2016, 87, 11D803.	1.4	10
31	Estimation of greenhouse gas (GHG) emission and energy use efficiency (EUE) analysis in rainfed canola production (case study: Golestan province, Iran). <i>Energy</i> , 2016, 116, 694-700.	9.0	53
32	Phase space effects on fast ion distribution function modeling in tokamaks. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	7
33	Energetic particle-driven compressional Alfvén eigenmodes and prospects for ion cyclotron emission studies in fusion plasmas. <i>New Journal of Physics</i> , 2016, 18, 105010.	2.9	31
34	Ion cyclotron emission studies: Retrospects and prospects. <i>Plasma Physics Reports</i> , 2016, 42, 430-439.	0.9	15
35	Physics Basis for an Advanced Physics and Advanced Technology Tokamak Power Plant Configuration: ARIES-ACT1. <i>Fusion Science and Technology</i> , 2015, 67, 75-106.	1.1	8
36	Cinnamic aldehyde treatment alleviates chronic unexpected stress-induced depressive-like behaviors via targeting cyclooxygenase-2 in mid-aged rats. <i>Journal of Ethnopharmacology</i> , 2015, 162, 97-103.	4.2	32

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37	Anomalous fast ion losses at high $\hat{I}^2$ on the tokamak fusion test reactor. <i>Physics of Plasmas</i> , 2015, 22, 032501.	1.9	5
38	Numerical study of Alfvén eigenmodes in the Experimental Advanced Superconducting Tokamak. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	18
39	Comparing the line broadened quasilinear model to Vlasov code. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	15
40	Comparison of methods for numerical calculation of continuum damping. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	12
41	Properties of Alfvén eigenmodes in the Toroidal Alfvén Eigenmode range on the National Spherical Torus Experiment-Upgrade. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	5
42	Non-linear modulation of short wavelength compressional Alfvén eigenmodes. <i>Physics of Plasmas</i> , 2013, 20, 042112.	1.9	19
43	Excitation of Alfvén modes by energetic particles in magnetic fusion. <i>AIP Conference Proceedings</i> , 2012, , .	1.0	0
44	1.5D quasilinear model and its application on beams interacting with Alfvén eigenmodes in DIII-D. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	39
45	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	94
46	Digital audio watermarking based on holographic nonlinear limiter. , 2011, , .		0
47	Effects of toroidal rotation shear on toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2010, 17, 122501.	1.9	18
48	Three-wave interactions between fast-ion driven modes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	7
49	Experimental studies on fast-ion transport by Alfvén wave avalanches on the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	58
50	Beta-induced Alfvén-acoustic eigenmodes in National Spherical Torus Experiment and DIII-D driven by beam ions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	77
51	Modeling fast-ion transport during toroidal Alfvén eigenmode avalanches in National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, 122505.	1.9	60
52	Use of Fast Ion D-Alpha diagnostics for understanding ICRF effects. <i>AIP Conference Proceedings</i> , 2009, , .	1.0	0
53	Identification of a tripartite import signal in the Ewing Sarcoma protein (EWS). <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1197-1201.	2.2	13
54	Deoxyribonucleic Acids from <i>Cryptococcus neoformans</i> Activate Myeloid Dendritic Cells via a TLR9-Dependent Pathway. <i>Journal of Immunology</i> , 2008, 180, 4067-4074.	0.8	103

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55	Alfvén cascade modes at high $\hat{\nu}$ in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	20
56	Excitation of Alfvén eigenmodes by low energy beam ions in the DIII-D and JET tokamaks. <i>Physics of Plasmas</i> , 2008, 15, 056107.	1.9	33
57	Intense Geodesic Acousticlike Modes Driven by Suprathermal Ions in a Tokamak Plasma. <i>Physical Review Letters</i> , 2008, 101, 185001.	8.0	134
58	Chapter 2: Magnetic Diagnostics. <i>Fusion Science and Technology</i> , 2008, 53, 304-334.	1.1	82
59	Stochastic RF Heating of Thermal Ions. <i>AIP Conference Proceedings</i> , 2007, , .	1.0	0
60	Coupling of global toroidal Alfvén eigenmodes and reversed shear Alfvén eigenmodes in DIII-D. <i>Physics of Plasmas</i> , 2007, 14, 056102.	1.9	37
61	$\hat{\nu}$ suppression of Alfvén cascade modes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	41
62	Transport with reversed shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2007, 14, 056119.	1.9	37
63	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. <i>Current Medical Research and Opinion</i> , 2007, 23, 3017-3023.	2.0	20
64	Tearing Mode Stability of Model Plasmas in NCSX. <i>Fusion Science and Technology</i> , 2007, 51, 232-237.	1.1	1
65	Hydrocarbon accumulation in deep fluid modified carbonate rock in the Tarim Basin. <i>Science Bulletin</i> , 2007, 52, 184-192.	1.6	11
66	Collective fast ion instability-induced losses in National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056109.	1.9	89
67	Characterization of small, Type V edge-localized modes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 092510.	1.9	36
68	Effect of plasma shaping on performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056122.	1.9	34
69	Electro-osmotically controllable multi-flow microreactor. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 242-248.	2.2	24
70	Alfvén eigenmodes in reversed shear plasmas in JT-60U negative-ion-based neutral beam injection discharges. <i>Physics of Plasmas</i> , 2005, 12, 082509.	1.9	42
71	Double-Gap Alfvén Eigenmodes: Revisiting Eigenmode Interaction with the Alfvén Continuum. <i>Physical Review Letters</i> , 2005, 95, 265003.	8.0	10
72	Trapped electron stabilization of ballooning modes in low aspect ratio toroidal plasmas. <i>Physics of Plasmas</i> , 2004, 11, 4784-4795.	1.9	15

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73	Phenomenology of compressional Alfvén eigenmodes. <i>Physics of Plasmas</i> , 2004, 11, 3653-3659.	1.9	28
74	Beam ion driven instabilities in the National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 2004, 11, 2586-2593.	1.9	36
75	Examination of treatment pattern differences by race. <i>Administration and Policy in Mental Health and Mental Health Services Research</i> , 2003, 5, 241-250.	2.3	28
76	Wave driven fast ion loss in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 2852-2862.	1.9	58
77	H-mode threshold and dynamics in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 1755-1764.	1.9	27
78	The internal kink mode in an anisotropic flowing plasma with application to modeling neutral beam injected sawtooth discharges. <i>Physics of Plasmas</i> , 2003, 10, 1034-1047.	1.9	39
79	Observation of spontaneous neoclassical tearing modes. <i>Physics of Plasmas</i> , 2002, 9, 548-559.	1.9	48
80	Compressional Alfvén eigenmode dispersion in low aspect ratio plasmas. <i>Physics of Plasmas</i> , 2002, 9, 3483-3488.	1.9	19
81	Depression in palliative care: a pragmatic report from the Expert Working Group of the European Association for Palliative Care. <i>Supportive Care in Cancer</i> , 2001, 9, 477-488.	2.3	132
82	Observation of Compressional Alfvén Modes During Neutral-Beam Heating on the National Spherical Torus Experiment. <i>Physical Review Letters</i> , 2001, 87, 145001.	8.0	80
83	Memory illusions: False recall and recognition in adults with Asperger's syndrome.. <i>Journal of Abnormal Psychology</i> , 2000, 109, 663-672.	2.3	90
84	Nature of Monster Sawteeth and Their Relationship to Alfvén Instabilities in Tokamaks. <i>Physical Review Letters</i> , 2000, 84, 1212-1215.	8.0	32
85	Direct Observation of the Resistive Wall Mode in a Tokamak and Its Interaction with Plasma Rotation. <i>Physical Review Letters</i> , 1999, 82, 3811-3814.	8.0	152
86	Role of Alfvén instabilities in energetic ion transport. <i>Physics of Plasmas</i> , 1999, 6, 1880-1884.	1.9	33
87	Tokamak Fusion Test Reactor charge exchange atom spectrometry using a natural diamond detector. <i>Review of Scientific Instruments</i> , 1999, 70, 1107-1110.	1.4	24
88	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
89	Saturation of alpha particle driven instability in Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 629-632.	1.9	24
90	Fast particle finite orbit width and Larmor radius effects on low-n toroidicity induced Alfvén eigenmode excitation. <i>Physics of Plasmas</i> , 1999, 6, 2802-2807.	1.9	102

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91	Neoclassical tearing modes in Tokamak Fusion Test Reactor experiments. I. Measurements of magnetic islands and $\hat{\Gamma}^2$ . Physics of Plasmas, 1998, 5, 1076-1084.	1.9	37
92	Measuring $\hat{\Gamma}^2$ from electron temperature fluctuations in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1998, 5, 450-454.	1.9	31
93	Kinetic theory of plasma adiabatic major radius compression in tokamaks. Physics of Plasmas, 1998, 5, 1345-1353.	1.9	1
94	Fusion plasma experiments on TFTR: A 20 year retrospective. Physics of Plasmas, 1998, 5, 1577-1589.	1.9	94
95	Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas. Physics of Plasmas, 1998, 5, 1703-1711.	1.9	33
96	HINST: A two-dimensional code for high-n toroidicity induced Alfvén eigenmodes stability. Physics of Plasmas, 1998, 5, 3389-3397.	1.9	25
97	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1714-1724.	1.9	27
98	The stability of advanced operational regimes on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1589-1595.	1.9	16
99	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
100	Correlation between excitation of Alfvén modes and degradation of ICRF heating efficiency in TFTR. AIP Conference Proceedings, 1997, , .	1.0	0
101	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. Physics of Plasmas, 1996, 3, 1875-1880.	1.9	25
102	Confinement analysis in low-confinement mode of hydrogen isotope experiments on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1996, 3, 4521-4535.	1.9	12
103	Tomography of full sawtooth crashes on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1996, 3, 1647-1655.	1.9	67
104	A threshold for excitation of neoclassical tearing modes. Physics of Plasmas, 1996, 3, 3379-3385.	1.9	63
105	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
106	Off-Axis Sawteeth and Double-Tearing Reconnection in Reversed Magnetic Shear Plasmas in TFTR. Physical Review Letters, 1996, 77, 3553-3556.	8.0	147
107	High-frequency core localized modes in neutral beam heated plasmas on TFTR. Physics of Plasmas, 1996, 3, 593-605.	1.9	33
108	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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109	Arterial plaque removal with an electrostatic microactuator. , 1995, , .		1
110	Observation of Nonlinear Neoclassical Pressure-Gradient-Driven Tearing Modes in TFTR. Physical Review Letters, 1995, 74, 4663-4666.	8.0	368
111	Excitation of Alfvén cyclotron instability by charged fusion products in tokamaks. Physics of Plasmas, 1995, 2, 1961-1971.	1.9	58
112	$\hat{\nu}^2$ limit disruptions in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 4216-4229.	1.9	37
113	Parametric variations of ion transport in TFTR. AIP Conference Proceedings, 1994, , .	1.0	3
114	Anomalous losses of deuterium-deuterium fusion products in the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1469-1478.	1.9	29
115	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
116	Agriculture in the Uruguay Round: An Assessment. Economic Journal, 1993, 103, 1513.	3.5	9
117	Measurements of the radial structure and poloidal spectra of toroidal Alfvén eigenmodes in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 3707-3712.	1.8	33
118	Investigation of global Alfvén instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.8	38
119	Decreased salinity effects in Lake Kinneret (Israel). Hydrobiologia, 1992, 228, 231-237.	2.0	2
120	High- $Q$ plasmas in the TFTR tokamak. Physics of Fluids B, 1991, 3, 2308-2314.	1.8	17
121	Experiments utilizing ion cyclotron range of frequencies heating on the TFTR tokamak. Physics of Fluids B, 1991, 3, 2270-2276.	1.8	9
122	MeV ion confinement in the TFTR tokamak. Physics of Fluids B, 1990, 2, 1411-1414.	1.8	14
123	Mode particle resonances during near-tangential neutral beam injection in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1990, 2, 1584-1588.	1.8	26
124	Low-frequency MHD diagnostics on TFTR. Review of Scientific Instruments, 1990, 61, 3025-3027.	1.4	2
125	Image reconstructions of ECE and x-ray signals for high $\hat{\nu}^2$ plasmas on TFTR. Review of Scientific Instruments, 1990, 61, 3265-3267.	1.4	19