

Robert I Pinsker

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Upgrades to the ion cyclotron emission diagnostic on the DIII-D tokamak. Review of Scientific Instruments, 2021, 92, 033543.	1.3	12
2	Advances in physics understanding of high poloidal beta regime toward steady-state operation of CFETR. Physics of Plasmas, 2021, 28, .	1.9	14
3	Stabilization of Alfvén Eigenmodes in DIII-D via Controlled Energetic Ion Density Ramp and Validation of Theory and Simulations. Physical Review Letters, 2021, 126, 155001.	7.8	10
4	The high-power helicon program at DIII-D: gearing up for first experiments. Nuclear Fusion, 2021, 61, 116034.	3.5	12
5	CMA diagrams, inverse wave normal surfaces, and fast and slow wave propagation in the lower hybrid range of frequencies. AIP Conference Proceedings, 2020, , .	0.4	1
6	Central ion cyclotron emission in the DIII-D tokamak. Nuclear Fusion, 2019, 59, 086011.	3.5	30
7	Low-frequency whistler waves in quiescent runaway electron plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 014007.	2.1	20
8	Multi-scale transport in the DIII-D ITER baseline scenario with direct electron heating and projection to ITER. Physics of Plasmas, 2018, 25, .	1.9	18
9	Experiments on helicons in DIII-D—investigation of the physics of a reactor-relevant non-inductive current drive technology. Nuclear Fusion, 2018, 58, 106007.	3.5	25
10	Radio frequency measurements of energetic-particle-driven emission using the ion cyclotron emission diagnostic on the DIII-D tokamak. Review of Scientific Instruments, 2018, 89, 10I102.	1.3	35
11	A High Power Helicon Antenna Design for DIII-D. Fusion Science and Technology, 2017, 72, 623-627.	1.1	3
12	Whistlers, helicons, and lower hybrid waves: The physics of radio frequency wave propagation and absorption for current drive via Landau damping. Physics of Plasmas, 2015, 22, .	1.9	36
13	Effect of the scrape-off layer in AORSA full wave simulations of fast wave minority, mid/high harmonic, and helicon heating regimes. AIP Conference Proceedings, 2015, , .	0.4	3
14	Using AORSA to simulate helicon waves in DIII-D. AIP Conference Proceedings, 2015, , .	0.4	6
15	Comparison of coupling to 5â€¦GHz lower hybrid waves and 0.5â€¦GHz helicon waves. AIP Conference Proceedings, 2015, , .	0.4	2
16	Fast wave direct electron heating in advanced inductive and ITER baseline scenario discharges in DIII-D. , 2014, , .		2
17	High efficiency off-axis current drive by high frequency fast waves. , 2014, , .		2
18	Guided radar system for arc detection: Initial results at DIII-D. , 2014, , .		0

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19	Fast RF power diagnostics for the DIII-D fast wave current drive system using commercial FPGA-based systems. , 2013, , .		0
20	Initial Testing of Optical Arc Detector inside 285/300 Fast Wave Antenna Box on DIII-D. Fusion Science and Technology, 2013, 64, 530-532.	1.1	0
21	Operating The Upgraded NSTX HHFW Antenna Array In An Environment With Li-coated Surfaces. AIP Conference Proceedings, 2011, , .	0.4	4
22	Modeling of Synergy Between 4 th and 6 th Harmonic Absorptions of Fast Waves on Injected Beams in DIII-D Tokamak. AIP Conference Proceedings, 2011, , .	0.4	0
23	Recent Results on Coupling Fast Waves to High Performance Plasmas on DIII-D. AIP Conference Proceedings, 2011, , .	0.4	9
24	Toroidally resolved structure of divertor heat flux in RMP H-mode discharges on DIII-D. Journal of Nuclear Materials, 2011, 415, S901-S905.	2.7	8
25	Iterated finite-orbit Monte Carlo simulations with full-wave fields for modeling tokamak ion cyclotron resonance frequency wave heating experiments. Physics of Plasmas, 2010, 17, .	1.9	17
26	Design Concepts For A Long Pulse Upgrade For The DIII-D Fast Wave Antenna Array. , 2009, , .		0
27	Use of Fast Ion D-Alpha diagnostics for understanding ICRF effects. , 2009, , .		0
28	Synergy in Two-Frequency Fast Wave Cyclotron Harmonic Absorption in DIII-D. , 2009, , .		1
29	A Method of Tuning Resonant Loops. AIP Conference Proceedings, 2007, , .	0.4	0
30	Time-Dependent Modeling of Nonlinear Plasma Response to Fast Waves With Multiple Damping Mechanisms. AIP Conference Proceedings, 2007, , .	0.4	0
31	Effect of Energetic Trapped Particles Produced by ICRF Wave Heating on Sawtooth Instability in the DIII-D Tokamak. AIP Conference Proceedings, 2007, , .	0.4	0
32	Sawtooth control using beam ions accelerated by fast waves in the DIII-D tokamak. Physics of Plasmas, 2007, 14, 112517.	1.9	5
33	Measurements of fast-ion acceleration at cyclotron harmonics using Balmer-alpha spectroscopy. Plasma Physics and Controlled Fusion, 2007, 49, 1457-1475.	2.1	100
34	Progress toward fully noninductive, high beta conditions in DIII-D. Physics of Plasmas, 2006, 13, 056106.	1.9	57
35	Progress towards high-performance steady-state operation on DIII-D. Fusion Engineering and Design, 2006, 81, 2807-2815.	1.9	1
36	Simulation of fast Alfvén wave interaction with beam ions over a range of cyclotron harmonics in DIII-D tokamak. Nuclear Fusion, 2006, 46, S409-S415.	3.5	8

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37	Absorption of fast waves at moderate to high ion cyclotron harmonics on DIII-D. Nuclear Fusion, 2006, 46, S416-S424.	3.5	21
38	Development of Next-Step-Relevant ICRF Technology in the DIII-D Program. Fusion Science and Technology, 2005, 48, 1238-1248.	1.1	8
39	Plasma Heating in the Ion Cyclotron Range of Frequencies in DIII-D. Fusion Science and Technology, 2005, 48, 1149-1158.	1.1	0
40	Monte-Carlo Orbit/Full Wave Simulation of Fast Alfvén Wave (FW) Damping on Resonant Ions in Tokamaks. AIP Conference Proceedings, 2005, , .	0.4	1
41	Absorption of Fast Waves at Moderate to High Ion Cyclotron Harmonics on DIII-D. AIP Conference Proceedings, 2005, , .	0.4	1
42	Modeling of Discharges with Fast Wave Power in DIII-D. AIP Conference Proceedings, 2005, , .	0.4	1
43	EBW Experiments in the Madison Symmetric Torus. AIP Conference Proceedings, 2005, , .	0.4	0
44	Calculation of coupling to the electron Bernstein wave with a phased waveguide array. Plasma Physics and Controlled Fusion, 2005, 47, 335-355.	2.1	5
45	Vulnerability of Feedthroughs Operated at a Low-Impedance Point on DIII-D. , 2005, , .		1
46	Monte Carlo orbit/full wave simulation of ion cyclotron resonance frequency wave damping on resonant ions in tokamaks. Physics of Plasmas, 2005, 12, 072505.	1.9	13
47	100% noninductive operation at high beta using off-axis ECCD in DIII-D. Nuclear Fusion, 2005, 45, 1419-1426.	3.5	80
48	Advanced tokamak research in DIII-D. Plasma Physics and Controlled Fusion, 2004, 46, B213-B233.	2.1	30
49	High performance advanced tokamak regimes in DIII-D for next-step experiments. Physics of Plasmas, 2004, 11, 2616-2626.	1.9	19
50	Exploration of high harmonic fast wave heating on the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1733-1738.	1.9	31
51	Advanced tokamak profile evolution in DIII-D. Physics of Plasmas, 2003, 10, 1691-1697.	1.9	24
52	Electron Bernstein Wave Experiments in the MST Reversed Field Pinch. AIP Conference Proceedings, 2003, , .	0.4	1
53	Analysis of combined fast wave current drive and neutral beam injection in the DIII-D tokamak. Physics of Plasmas, 2002, 9, 1318-1325.	1.9	10
54	The quiescent double barrier regime in DIII-D. Plasma Physics and Controlled Fusion, 2002, 44, A123-A135.	2.1	17

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55	Fast wave current drive at high ion cyclotron harmonics on DIII-D. Plasma Physics and Controlled Fusion, 2001, 43, 1747-1758.	2.1	25
56	Calculation of direct coupling to the electron Bernstein wave with a waveguide antenna. AIP Conference Proceedings, 2001, . .	0.4	7
57	Quiescent Double Barrier Regime in the DIII-D Tokamak. Physical Review Letters, 2001, 86, 4544-4547.	7.8	134
58	The combined effect of EPs and TAEs on energetic ion confinement and sawtooth stabilization. Nuclear Fusion, 2001, 41, 513-518.	3.5	25
59	Long pulse high performance discharges in the DIII-D tokamak. Nuclear Fusion, 2001, 41, 1585-1599.	3.5	68
60	Radiofrequency experiments in JFT-2M: Demonstration of innovative applications of a travelling wave antenna. Nuclear Fusion, 2001, 41, 1767-1775.	3.5	34
61	Introduction to wave heating and current drive in magnetized plasmas. Physics of Plasmas, 2001, 8, 1219.	1.9	16
62	Initial physics results from the National Spherical Torus Experiment. Physics of Plasmas, 2001, 8, 1977-1987.	1.9	46
63	Progress toward long-pulse high-performance Advanced Tokamak discharges on the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2208-2216.	1.9	50
64	Understanding and control of transport in Advanced Tokamak regimes in DIII-D. Physics of Plasmas, 2000, 7, 1959-1967.	1.9	49
65	Fast wave current drive in H mode plasmas on the DIII-D tokamak. Nuclear Fusion, 1999, 39, 1421-1432.	3.5	34
66	Behaviour of electron and ion transport in discharges with an internal transport barrier in the DIII-D tokamak. Nuclear Fusion, 1999, 39, 1723-1732.	3.5	61
67	Electron heat transport in improved confinement discharges in DIII-D. Physics of Plasmas, 1999, 6, 1978-1984.	1.9	100
68	High harmonic ion cyclotron heating in DIII-D: Beam ion absorption and sawtooth stabilization. Nuclear Fusion, 1999, 39, 1369-1389.	3.5	51
69	Development of impedance matching technologies for ICRF antenna arrays. Plasma Physics and Controlled Fusion, 1998, 40, A215-A229.	2.1	32
70	Recent progress in ICRF physics. Plasma Physics and Controlled Fusion, 1998, 40, A35-A52.	2.1	33
71	Internal Electric Field Structure of Launched Fast Magnetosonic Waves in the DIII-D Tokamak. Physical Review Letters, 1998, 80, 2330-2333.	7.8	12
72	Determination of internal radio frequency electric field profiles via millimeter wave reflectometry in the DIII-D Tokamak. Review of Scientific Instruments, 1997, 68, 462-465.	1.3	11

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73	Plasma mass density, species mix, and fluctuation diagnostics using a fast Alfvén wave. Review of Scientific Instruments, 1997, 68, 478-479.	1.3	17
74	Measurements of ICRF loading on DIII-D with and without a Faraday shield. Nuclear Fusion, 1997, 37, 211-224.	3.5	19
75	Fast wave propagation studies in the DIII-D tokamak. Physics of Plasmas, 1996, 3, 2306-2315.	1.9	14
76	Experimentally determined profiles of fast wave current drive in a tokamak. Physics of Plasmas, 1996, 3, 2846-2848.	1.9	9
77	Energy Transport in Tokamak Plasmas with Central Current Density Control Using Fast Waves. Physical Review Letters, 1996, 77, 3141-3144.	7.8	36
78	Non-inductive current drive experiments on DIII - D, and future plans. Fusion Engineering and Design, 1995, 26, 49-58.	1.9	4
79	Internal, nonperturbing, radio frequency wave monitor reflectometer system on the DIII-D tokamak	1.3	0
80	Review of Scientific Instruments, 1995, 66, 1225-1228.	1.3	10
81	Gyroradius Scaling of Electron and Ion Transport. Physical Review Letters, 1995, 74, 1763-1766.	7.8	75
82	Nondimensional transport scaling in DIII-D: Bohm versus gyro-Bohm resolved. Physics of Plasmas, 1995, 2, 2342-2348.	1.9	102
83	Fast wave and electron cyclotron current drive in the DIII-D tokamak. Nuclear Fusion, 1995, 35, 773-786.	3.5	44
84	Review of tokamak experiments on direct electron heating and current drive with fast waves. AIP Conference Proceedings, 1994, , .	0.4	7
85	The ergodic limit of multipass absorption for fast wave current drive in tokamaks. Physics of Plasmas, 1994, 1, 3915-3927.	1.9	7
86	The technology of fast wave current drive antennas. Fusion Engineering and Design, 1994, 24, 91-102.	1.9	4
87	Phased operation of the DIII-D FWCD antenna array with a single power source. Fusion Engineering and Design, 1994, 24, 103-133.	1.9	4
88	Investigation of the formation of a fully pressure-driven tokamak*. Physics of Plasmas, 1994, 1, 1568-1575.	1.9	81
89	Current drive with fast waves, electron cyclotron waves, and neutral injection in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 1993, 35, A53-A70.	2.1	22
90	X-Ray Energy Analysis for Radio Frequency Current Drive Experiments in the DIII-D Tokamak. Japanese Journal of Applied Physics, 1993, 32, 3975-3984.	1.5	1

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91	Ion Bernstein wave antenna loading measurements on the DIII-D tokamak. Nuclear Fusion, 1993, 33, 627-642.	3.5	20
92	Observation of parametric decay correlated with edge heating using an ion Bernstein wave antenna on DIII-D. Nuclear Fusion, 1993, 33, 777-793.	3.5	27
93	Absorption of fast waves by electrons on the DIII-D tokamak. Physical Review Letters, 1992, 69, 289-292.	7.8	36
94	Recent results from DIII-D and their implications for next generation tokamaks. Plasma Physics and Controlled Fusion, 1990, 32, 869-887.	2.1	25
95	Magnetic islands at the field reversal surface in reversed field pinches. Physics of Fluids, 1986, 29, 782.	1.4	10
96	Unipolar currents and electrostatic probe characteristics in a gas discharge plasma. Journal of Applied Physics, 1983, 54, 1289-1292.	2.5	0
97	Novel internal measurements of ion cyclotron frequency range fast-ion driven modes. Nuclear Fusion, 0, , .	3.5	10