

William

List of Publications by Year in descending order

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65
papers

2,176
citations

218677

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all docs

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docs citations

67
times ranked

1242
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of the energetic particle redistribution by an improved critical gradient model and analysis of the transport threshold. <i>Physics of Plasmas</i> , 2022, 29, 032304.	1.9	3
2	Regulation of Alfvén Eigenmodes by Microturbulence in Fusion Plasmas. <i>Physical Review Letters</i> , 2022, 128, 185001.	7.8	11
3	Upgrades to the ion cyclotron emission diagnostic on the DIII-D tokamak. <i>Review of Scientific Instruments</i> , 2021, 92, 033543.	1.3	12
4	Phase-space sensitivity (weight functions) of 3 MeV proton diagnostics. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 055008.	2.1	10
5	Development of a narrow stopband filter for spectroscopic fast ion deuterium-alpha measurements. <i>Review of Scientific Instruments</i> , 2021, 92, 033107.	1.3	0
6	The imaging fast ion D-alpha diagnostic (IFIDA) on DIII-D. <i>Review of Scientific Instruments</i> , 2021, 92, 033533.	1.3	2
7	Radially resolved active charge exchange measurements of the hydrogenic isotope fraction on DIII-D. <i>Review of Scientific Instruments</i> , 2021, 92, 043535.	1.3	4
8	The motional Stark effect diagnostic reliably measures significant deviations in safety factor profile during DIII-D sawteeth. <i>Physics of Plasmas</i> , 2020, 27, 080701.	1.9	6
9	Mechanisms of energetic-particle transport in magnetically confined plasmas. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	42
10	Gyrokinetic particle simulations of interactions between energetic particles and magnetic islands induced by neoclassical tearing modes. <i>Physics of Plasmas</i> , 2020, 27, 032508.	1.9	7
11	Fast-ion D alpha diagnostic with 3D-supporting FIDASIM in the Large Helical Device. <i>Nuclear Fusion</i> , 2020, 60, 112014.	3.5	9
12	Active control of Alfvén eigenmodes in magnetically confined toroidal plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 054007.	2.1	37
13	Quantitative modeling of neoclassical tearing mode driven fast ion transport in integrated TRANSP simulations. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 055012.	2.1	21
14	Low-frequency whistler waves in quiescent runaway electron plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014007.	2.1	20
15	First Direct Observation of Runaway-Electron-Driven Whistler Waves in Tokamaks. <i>Physical Review Letters</i> , 2018, 120, 155002.	7.8	68
16	Fast ion D-alpha measurements using a bandpass-filtered system on EAST. <i>Review of Scientific Instruments</i> , 2018, 89, 10D121.	1.3	8
17	On the scattering correction of fast-ion D-alpha signals on NSTX-U. <i>Review of Scientific Instruments</i> , 2018, 89, 063507.	1.3	2
18	Fast-ion transport by Alfvén eigenmodes above a critical gradient threshold. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	37

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19	Action-angle formulation of generalized, orbit-based, fast-ion diagnostic weight functions. Physics of Plasmas, 2017, 24, .	1.9	25
20	First results from solid state neutral particle analyzer on experimental advanced superconducting tokamak. Review of Scientific Instruments, 2016, 87, 11D834.	1.3	8
21	Compact and multi-view solid state neutral particle analyzer arrays on National Spherical Torus Experiment-Upgrade. Review of Scientific Instruments, 2016, 87, 11D803.	1.3	10
22	Observation of Critical-Gradient Behavior in Alfvén-Eigenmode-Induced Fast-Ion Transport. Physical Review Letters, 2016, 116, 095001.	7.8	78
23	Diverse wave-particle interactions for energetic ions that traverse Alfvén eigenmodes on their first full orbit. Physics of Plasmas, 2016, 23, .	1.9	4
24	Fast-ion $D\alpha$ spectrum diagnostic in the EAST. Review of Scientific Instruments, 2016, 87, 11E552.	1.3	10
25	055904.	1.9	38
26	Confinement degradation by Alfvén-eigenmode induced fast-ion transport in steady-state scenario discharges. Plasma Physics and Controlled Fusion, 2014, 56, 095030.	2.1	43
27	Development of an integrated energetic neutral particle measurement system on experimental advanced full superconducting tokamak. Review of Scientific Instruments, 2014, 85, 11E107.	1.3	10
28	Conceptual design of a fast-ion D-alpha diagnostic on experimental advanced superconducting tokamak. Review of Scientific Instruments, 2014, 85, 11E407.	1.3	12
29	Dual view FIDA measurements on MAST. Plasma Physics and Controlled Fusion, 2013, 55, 095007.	2.1	44
30	Enhanced Localized Energetic-Ion Losses Resulting from Single-Pass Interactions with Alfvén Eigenmodes. Physical Review Letters, 2013, 110, 065004.	7.8	24
31	Verification and validation of linear gyrokinetic simulation of Alfvén eigenmodes in the DIII-D tokamak. Physics of Plasmas, 2012, 19, .	1.9	42
32	Active spectroscopic measurements of the bulk deuterium properties in the DIII-D tokamak (invited). Review of Scientific Instruments, 2012, 83, 10D529.	1.3	64
33	Fractional Resonances between Waves and Energetic Particles in Tokamak Plasmas. Physical Review Letters, 2012, 109, 035003.	7.8	24
34	Calibration techniques for fast-ion $D\alpha$ diagnostics. Review of Scientific Instruments, 2012, 83, 10D903.	1.3	5
35	1.5D quasilinear model and its application on beams interacting with Alfvén eigenmodes in DIII-D. Physics of Plasmas, 2012, 19, 092511.	1.9	39
36	Sheared-flow induced confinement transition in a linear magnetized plasma. Physics of Plasmas, 2012, 19, 012116.	1.9	14

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37	Thermal plasma and fast ion transport in electrostatic turbulence in the large plasma device. Physics of Plasmas, 2012, 19, 055904.	1.9	2
38	Velocity-space studies of fast-ion transport at a sawtooth crash in neutral-beam heated plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 025006.	2.1	39
39	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
40	A Code that Simulates Fast-Ion \hat{D} and Neutral Particle Measurements. Communications in Computational Physics, 2011, 10, 716-741.	1.7	119
41	Characterization of off-axis fishbones. Plasma Physics and Controlled Fusion, 2011, 53, 085028.	2.1	48
42	Dependence of fast-ion transport on the nature of the turbulence in the Large Plasma Device. Physics of Plasmas, 2011, 18, 082104.	1.9	13
43	Particle distribution modification by low amplitude modes. Plasma Physics and Controlled Fusion, 2010, 52, 045012.	2.1	69
44	Fast-ion \hat{D} measurements of the fast-ion distribution (invited). Review of Scientific Instruments, 2010, 81, 10D727.	1.3	85
45	Extended fast-ion D-alpha diagnostic on DIII-D. Review of Scientific Instruments, 2010, 81, 10D316.	1.3	40
46	Beam distribution modification by Alfvén modes. Physics of Plasmas, 2010, 17, 056107.	1.9	60
47	Turbulent transport of fast ions in the Large Plasma Device. Physics of Plasmas, 2010, 17, .	1.9	18
48	Experimental studies on fast-ion transport by Alfvén wave avalanches on the National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, .	1.9	56
49	Validation of on- and off-axis neutral beam current drive against experiment in DIII-D. Physics of Plasmas, 2009, 16, 092508.	1.9	23
50	Doppler-shifted cyclotron resonance of fast ions with circularly polarized shear Alfvén waves. Physics of Plasmas, 2009, 16, 055706.	1.9	8
51	Fast ion \hat{D} -imaging in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2009, 51, 055001.	2.1	32
52	Ion flow measurements and plasma current analysis in the Irvine Field Reversed Configuration. Physics of Plasmas, 2009, 16, 112509.	1.9	12
53	Spectral gap of shear Alfvén waves in a periodic array of magnetic mirrors. Physics of Plasmas, 2008, 15, .	1.9	29
54	Basic physics of Alfvén instabilities driven by energetic particles in toroidally confined plasmas. Physics of Plasmas, 2008, 15, .	1.9	398

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55	Observation of fast-ion Doppler-shifted cyclotron resonance with shear Alfvén waves. Physics of Plasmas, 2008, 15, .	1.9	10
56	A new fast-ion D_{\pm} diagnostic for DIII-D. Review of Scientific Instruments, 2008, 79, 10E520.	1.3	14
57	Measurement of the D_{\pm} spectrum produced by fast ions in DIII-D. Review of Scientific Instruments, 2007, 78, 033505.	1.3	64
58	Fast ion source and detector for investigating the interaction of turbulence with suprathermal ions in a low temperature toroidal plasma. Review of Scientific Instruments, 2006, 77, 10F503.	1.3	16
59	Measurements of classical transport of fast ions. Physics of Plasmas, 2005, 12, 052108.	1.9	15
60	Operation of a 0.2–1.1 keV ion source within a magnetized laboratory plasma. Review of Scientific Instruments, 2004, 75, 1013-1019.	1.3	12
61	Beam ion driven instabilities in the National Spherical Tokamak Experiment. Physics of Plasmas, 2004, 11, 2586-2593.	1.9	36
62	Ion species mix measurements in DIII-D and International Thermonuclear Experimental Reactor using ion–ion hybrid layer reflectometry. Review of Scientific Instruments, 2004, 75, 3862-3864.	1.3	6
63	Density interferometer using the fast Alfvén wave. Review of Scientific Instruments, 2003, 74, 1605-1608.	1.3	18
64	Accurate measurements of the pitch-angle scattering of beam ions. Physics of Plasmas, 2002, 9, 28-34.	1.9	12
65	Reduction in Neutral Beam Driven Current in a Tokamak by Tearing Modes. Physical Review Letters, 1997, 79, 427-430.	7.8	38