

Daisuke Shiraki

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

680
citations

516710

16
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	An upgrade of the magnetic diagnostic system of the DIII-D tokamak for non-axisymmetric measurements. Review of Scientific Instruments, 2014, 85, 083503.	1.3	60
2	Spatiotemporal Evolution of Runaway Electron Momentum Distributions in Tokamaks. Physical Review Letters, 2017, 118, 255002.	7.8	53
3	Kink instabilities of the post-disruption runaway electron beam at low safety factor. Plasma Physics and Controlled Fusion, 2019, 61, 054001.	2.1	51
4	Measurement of runaway electron energy distribution function during high-Z gas injection into	1.9	50
5	Shattered pellet injection technology design and characterization for disruption mitigation experiments. Nuclear Fusion, 2019, 59, 066008.	3.5	47
6	Dissipation of post-disruption runaway electron plateaus by shattered pellet injection in DIII-D. Nuclear Fusion, 2018, 58, 056006.	3.5	41
7	The importance of matched poloidal spectra to error field correction in DIII-D. Physics of Plasmas, 2014, 21, .	1.9	39
8	The role of kinetic instabilities in formation of the runaway electron current after argon injection in DIII-D. Plasma Physics and Controlled Fusion, 2018, 60, 124003.	2.1	34
9	Resolving runaway electron distributions in space, time, and energy. Physics of Plasmas, 2018, 25, 056105.	1.9	31
10	Shattered pellet injection experiments at JET in support of the ITER disruption mitigation system design. Nuclear Fusion, 2022, 62, 026012.	3.5	25
11	A Kalman filter for feedback control of rotating external kink instabilities in the presence of noise. Physics of Plasmas, 2009, 16, 056112.	1.9	21
12	A novel path to runaway electron mitigation via deuterium injection and current-driven MHD instability. Nuclear Fusion, 2021, 61, 116058.	3.5	21
13	Study of argon expulsion from the post-disruption runaway electron plateau following low-Z massive gas injection in DIII-D. Physics of Plasmas, 2020, 27, .	1.9	20
14	Impact of ELM control techniques on tungsten sputtering in the DIII-D divertor and extrapolations to ITER. Physics of Plasmas, 2019, 26, .	1.9	19
15	Tokamak Operation with Safety Factor $q > 2$ via Control of MHD Stability. Physical Review Letters, 2014, 113, 045003.	1.3	18
16	Applying the new gamma ray imager diagnostic to measurements of runaway electron Bremsstrahlung radiation in the DIII-D Tokamak (invited). Review of Scientific Instruments, 2016, 87, 11E602.	1.3	16
17	Study of Z scaling of runaway electron plateau final loss energy deposition into wall of DIII-D. Physics of Plasmas, 2017, 24, .	1.9	16
18	Measurement of 3D plasma response to external magnetic perturbations in the presence of a rotating external kink. Physics of Plasmas, 2013, 20, 102503.	1.9	15

#	ARTICLE	IF	CITATIONS
19	Feedback-assisted extension of the tokamak operating space to low safety factor. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	14
20	Study of argon assimilation into the post-disruption runaway electron plateau in DIII-D and comparison with a 1D diffusion model. <i>Nuclear Fusion</i> , 2019, 59, 106014.	3.5	14
21	Recent DIII-D advances in runaway electron measurement and model validation. <i>Nuclear Fusion</i> , 2019, 59, 066025.	3.5	13
22	DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy. <i>Nuclear Fusion</i> , 2022, 62, 042024.	3.5	11
23	Feedback suppression of rotating external kink instabilities in the presence of noise. <i>Physics of Plasmas</i> , 2008, 15, 080704.	1.9	10
24	Controlled neoclassical tearing mode (NTM) healing by fueling pellets and its impact on electron cyclotron current drive requirements for complete NTM stabilization. <i>Nuclear Fusion</i> , 2019, 59, 126047.	3.5	10
25	High resolution detection and excitation of resonant magnetic perturbations in a wall-stabilized tokamak. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8
26	In situ "artificial plasma" calibration of tokamak magnetic sensors. <i>Review of Scientific Instruments</i> , 2013, 84, 063502.	1.3	7
27	Physics of runaway electrons with shattered pellet injection at JET. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 034002.	2.1	7
28	Spatially dependent modeling and simulation of runaway electron mitigation in DIII-D. <i>Physics of Plasmas</i> , 2020, 27, 112507.	1.9	5
29	Dynamic measurement of impurity ion transport in runaway electron plateaus in DIII-D. <i>Physics of Plasmas</i> , 2022, 29, 022503.	1.9	4