

Shinji Yoshimura

List of Publications by Year in descending order

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79
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923
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-neutral coupling allows electrostatic ion cyclotron waves to propagate below ion cyclotron frequency. <i>Physics of Plasmas</i> , 2022, 29, 022103.	1.9	1
2	Application of optical vortex to laser-induced fluorescence velocimetry of ions in a plasma. <i>Journal of Advanced Simulation in Science and Engineering</i> , 2022, 9, 150-159.	0.2	1
3	Cold Atmospheric Plasma Modification of Amyloid β^2 . <i>International Journal of Molecular Sciences</i> , 2021, 22, 3116.	4.1	3
4	Ignition-area extension of dielectric barrier discharge under high temperature. <i>Results in Physics</i> , 2021, 29, 104791.	4.1	3
5	Insights into normothermic treatment with direct irradiation of atmospheric pressure plasma for biological applications. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 010502.	1.5	10
6	Modification of laser-induced fluorescence spectrum by additional azimuthal Doppler effect in optical vortex beams. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SHHB04.	1.5	6
7	Response of beam focusing to plasma fluctuation in a filament-arc-type negative ion source. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SHHA01.	1.5	7
8	Controlling feeding gas temperature of plasma jet with Peltier device for experiments with fission yeast. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SEEG03.	1.5	6
9	Observation of Axial Neutral-Gas Flow Reversal in an ECR Plasma. <i>Plasma and Fusion Research</i> , 2019, 14, 1201066-1201066.	0.7	5
10	Intermittent Magnetic Fluctuations Associated with High-Temperature Bubbles in an ECR Plasma. <i>Plasma and Fusion Research</i> , 2019, 14, 3401081-3401081.	0.7	1
11	Variation of Doppler Broadening in High-Temperature Bubbles Created in an ECR Plasma. <i>Plasma and Fusion Research</i> , 2019, 14, 1201165-1201165.	0.7	2
12	Development of a dual beamlet monitor system for negative ion beam measurements. <i>Review of Scientific Instruments</i> , 2018, 89, 123303.	1.3	7
13	Energy confinement of hydrogen and deuterium electron-root plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2018, 58, 106025.	3.5	9
14	Observation of high-temperature bubbles in an ECR plasma. <i>Physics of Plasmas</i> , 2018, 25, 052113.	1.9	5
15	A comprehensive study on impurity behavior in LHD long pulse discharges. <i>Nuclear Materials and Energy</i> , 2017, 12, 124-132.	1.3	4
16	Strong suppression of impurity accumulation in steady-state hydrogen discharges with high power NBI heating on LHD. <i>Nuclear Fusion</i> , 2017, 57, 056003.	3.5	13
17	Extension of the operational regime of the LHD towards a deuterium experiment. <i>Nuclear Fusion</i> , 2017, 57, 102023.	3.5	116
18	Design of compact dispersion interferometer with a high efficiency nonlinear crystal and a low power CO ₂ laser. <i>Journal of Instrumentation</i> , 2017, 12, C12028-C12028.	1.2	3

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19	Asymmetry of velocity distribution function and inhomogeneity-induced flow associated with neutral depletion structure in an ECR plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	6
20	Intermittent Behavior of Local Electron Temperature in a Linear ECR Plasma. <i>Plasma and Fusion Research</i> , 2015, 10, 3401028-3401028.	0.7	4
21	Flow structure formation in an ion-unmagnetized plasma: The HYPER-II experiments. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	7
22	Exploration of spontaneous vortex formation and intermittent behavior in ECR plasmas: The HYPER-I experiments. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	7
23	Development of impurity seeding and radiation enhancement in the helical divertor of LHD. <i>Nuclear Fusion</i> , 2015, 55, 083016.	3.5	21
24	Impurity shielding criteria for steady state hydrogen plasmas in the LHD, a heliotron-type device. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 075014.	2.1	15
25	High-impedance wire grid method to study spatiotemporal behavior of hot electron clump generated in a plasma. <i>Review of Scientific Instruments</i> , 2014, 85, 113503.	1.3	3
26	Development of steady-state operation using ICH in the LHD. , 2014, , .		0
27	Development of steady-state operation using ion cyclotron heating in the Large Helical Device. <i>Physics of Plasmas</i> , 2014, 21, 061505.	1.9	16
28	Localized Intermittent Electron Flux in an ECR Plasma. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2554-2555.	1.3	2
29	Probability Density Functions of Floating Potential Fluctuations Due to Local Electron Flux Intermittency in a Linear ECR Plasma. , 2014, , .		2
30	Control of 3D edge radiation structure with resonant magnetic perturbation fields applied to the stochastic layer and stabilization of radiative divertor plasma in LHD. <i>Nuclear Fusion</i> , 2013, 53, 093032.	3.5	48
31	Divertor heat and particle control experiments on the large helical device. <i>Journal of Nuclear Materials</i> , 2013, 438, S133-S138.	2.7	13
32	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2013, 53, 104015.	3.5	35
33	Consideration of Secondary Electron Emission Effect for Probe Measurement. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 096101.	1.5	1
34	Electron cooling in decaying low-pressure plasmas. <i>Physical Review E</i> , 2012, 85, 046407.	2.1	15
35	Recombination and enhanced metastable repopulation in the argon afterglow. <i>Physical Review E</i> , 2012, 85, 056401.	2.1	28
36	Consideration of Secondary Electron Emission Effect for Probe Measurement. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 096101.	1.5	2

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37	Observation of Ion Stream Line Detachment and Onset of Azimuthal Rotation in a Diverging Magnetic Field. IEEE Transactions on Plasma Science, 2011, 39, 2470-2471.	1.3	4
38	Effect of a magnetic island on the three-dimensional structure of edge radiation and its consequences on detachment in the Large Helical Device (EX-D). Nuclear Fusion, 2011, 51, 073005.	3.5	13
39	Bolometric imaging of detached plasmas in LHD. Journal of Nuclear Materials, 2011, 415, S1147-S1150.	2.7	12
40	Lamb-Dip Laser-Induced Fluorescence Spectroscopy for Measuring Magnetic Field in a Plasma. Japanese Journal of Applied Physics, 2011, 50, 036101.	1.5	2
41	Lamb-Dip Laser-Induced Fluorescence Spectroscopy for Measuring Magnetic Field in a Plasma. Japanese Journal of Applied Physics, 2011, 50, 036101.	1.5	0
42	Measurement of neutral flow velocity in an ECR plasma using tunable diode laser LIF spectroscopy combined with saturated absorption spectroscopy. Journal of Physics: Conference Series, 2010, 227, 012008.	0.4	1
43	Bolometer Diagnostics on LHD. Fusion Science and Technology, 2010, 58, 412-417.	1.1	13
44	Spontaneous Toroidal Flow and Impurity Hole in the High Ion Temperature Plasma on LHD. Fusion Science and Technology, 2010, 58, 103-112.	1.1	4
45	Self-Calibrated Measurement of Ion Flow Using a Fine Multihole Directional Langmuir Probe. Japanese Journal of Applied Physics, 2010, 49, 036101.	1.5	6
46	Experimental studies on ion acceleration and stream line detachment in a diverging magnetic field. Physics of Plasmas, 2010, 17, 072106.	1.9	29
47	Parallel Ion Flow Velocity Measurement Using Laser Induced Fluorescence Method in an Electron Cyclotron Resonance Plasma. Plasma and Fusion Research, 2010, 5, S2052-S2052.	0.7	5
48	Neutral Particles at the Boundary of Microwave Discharge Plasma in HYPER-I. Plasma and Fusion Research, 2010, 5, S2075-S2075.	0.7	0
49	Observation of an impurity hole in the Large Helical Device. Nuclear Fusion, 2009, 49, 062002.	3.5	46
50	High-density plasma with internal diffusion barrier in the Large Helical Device. Nuclear Fusion, 2009, 49, 085002.	3.5	27
51	High resolution laser induced fluorescence Doppler velocimetry utilizing saturated absorption spectroscopy. Review of Scientific Instruments, 2009, 80, 053505.	1.3	22
52	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
53	Vortex Formation in a Plasma Interacting with Neutral Flow. , 2008, , .		2
54	Quasi-Neutrality Breaking in a Rotating Plasma. IEEE Transactions on Plasma Science, 2008, 36, 1224-1225.	1.3	3

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55	Crystalline structure and magnetic properties of Fe ₂ CrSi Heusler alloy films: New ferromagnetic material for high-performance magnetic random access memory. <i>Journal of Applied Physics</i> , 2008, 103, 07D716.	2.5	27
56	Characterization and operational regime of high density plasmas with internal diffusion barrier observed in the Large Helical Device. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B487-B496.	2.1	38
57	The effects of inelastic collisions on waves in partially ionized plasma. <i>Plasma Sources Science and Technology</i> , 2006, 15, S1-S7.	3.1	3
58	Plasma hole. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 454-455.	1.3	4
59	Tripolar vortex in a plasma. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 452-453.	1.3	5
60	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. <i>Nuclear Fusion</i> , 2004, 44, 217-225.	3.5	57
61	Formation of Visco-dissipative Vortex and Quasi-neutrality Breaking in a Magnetoplasma. <i>Physica Scripta</i> , 2004, T107, 49.	2.5	2
62	Measurement of Azimuthal Flow Velocity Using Laser-Induced Fluorescence Spectroscopy in a HYPER-I Plasma. <i>Journal of Plasma and Fusion Research</i> , 2004, 80, 1003-1004.	0.4	4
63	Experimental observation of a tripolar vortex in a plasma. <i>Physics of Plasmas</i> , 2003, 10, 2211-2216.	1.9	58
64	Recent advances in the LHD experiment. <i>Nuclear Fusion</i> , 2003, 43, 1674-1683.	3.5	119
65	Plasma performance and impurity behaviour in long pulse discharges on LHD. <i>Nuclear Fusion</i> , 2003, 43, 219-227.	3.5	34
66	Analytical Description of a Neutral-Induced Tripole Vortex in a Plasma. <i>Physical Review Letters</i> , 2002, 89, 265002.	7.8	34
67	Spontaneous Formation of a Plasma Hole in a Rotating Magnetized Plasma: A Giant Burgers Vortex in a Compressible Fluid. <i>Physical Review Letters</i> , 2002, 89, 075001.	7.8	37
68	Experimental observation of dominant propagation of the ion-acoustic slow mode in a negative ion plasma and its application. <i>Physics of Plasmas</i> , 2002, 9, 4481-4487.	1.9	113
69	Neutral Density Profile Determines the Vorticity of Ion Flow in a Charge Exchange-dominated Plasma.. <i>Journal of Plasma and Fusion Research</i> , 2002, 78, 1143-1144.	0.4	3
70	Measurements of the negative ion density in SF ₆ /Ar plasma using a plane electrostatic probe. <i>Review of Scientific Instruments</i> , 2001, 72, 2288-2293.	1.3	69
71	Ion acoustic waves in one- and two-negative ion species plasmas. <i>Physics of Plasmas</i> , 2001, 8, 4275-4283.	1.9	66
72	Plasma Flow Measurement Using Directional Langmuir Probe Under Weakly Ion-Magnetized Conditions. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 131-137.	1.6	43

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73	Ion-burst method for positive and negative ion species measurements. Thin Solid Films, 2001, 390, 212-216.	1.8	1
74	Estimate of the negative ion density in reactive gas plasmas. Thin Solid Films, 2001, 390, 222-227.	1.8	7
75	Propagation Characteristics of Ion Acoustic Waves in an Ar/SF6 Plasma. Journal of the Physical Society of Japan, 2000, 69, 1925-1926.	1.6	8
76	Ion Bursts in a Negative Ion Plasma. , 2000, , 381-384.		0
77	Measurement of Ion Species Utilizing Ion-Bursts in an Ar/SF 6 Mixture Plasma. Japanese Journal of Applied Physics, 1998, 37, L248-L250.	1.5	2
78	Excitation Characteristics of Ion Waves in a Negative Ion Plasma. Journal of the Physical Society of Japan, 1997, 66, 3842-3846.	1.6	8
79	Properties of linear ion acoustic waves in negative ion plasmas. , 0, , .		0