

Shinsuke OHSHIMA

List of Publications by Year in descending order

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108
papers

1,295
citations

430874

18
h-index

395702

33
g-index

108
all docs

108
docs citations

108
times ranked

896
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Zonal Flows in a Toroidal Plasma. <i>Physical Review Letters</i> , 2004, 93, 165002.	7.8	331
2	Experimental progress on zonal flow physics in toroidal plasmas. <i>Nuclear Fusion</i> , 2007, 47, S718-S726.	3.5	109
3	Experimental Evidence of a Zonal Magnetic Field in a Toroidal Plasma. <i>Physical Review Letters</i> , 2007, 98, 165001.	7.8	45
4	Mitigation of NBI-driven Alfvén eigenmodes by electron cyclotron heating in the TJ-II stellarator. <i>Nuclear Fusion</i> , 2013, 53, 072004.	3.5	44
5	Intermittent characteristics in coupling between turbulence and zonal flows. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 211-217.	2.1	37
6	Radial Transport Characteristics of Fast Ions Due to Energetic-Particle Modes inside the Last Closed-Flux Surface in the Compact Helical System. <i>Physical Review Letters</i> , 2008, 100, 065005.	7.8	33
7	Causal Relationship between Zonal Flow and Turbulence in a Toroidal Plasma. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 033501.	1.6	31
8	Suppression of fast-ion-driven MHD instabilities by ECH/ECCD on Heliotron J. <i>Nuclear Fusion</i> , 2017, 57, 126065.	3.5	29
9	Edge transport barrier formation in compact helical system. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, A113-A119.	2.1	28
10	Spectrograph of electric field fluctuation in toroidal helical plasma. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, S31-S39.	2.1	28
11	Note: Application of laser produced plasma K α x-ray probe in radiation biology. <i>Review of Scientific Instruments</i> , 2010, 81, 026107.	1.3	27
12	Properties of turbulence and stationary zonal flow on transport barrier in CHS. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, A365-A370.	2.1	23
13	A Quasi-Coherent Electrostatic Mode in ECRH Plasmas on TJ-II. <i>Plasma and Fusion Research</i> , 2011, 6, 2402030-2402030.	0.7	23
14	Efficient multi-keV x-ray generation from a high-Z target irradiated with a clean ultra-short laser pulse. <i>Optics Express</i> , 2011, 19, 4560.	3.4	22
15	Energy transport and isochoric heating of a low-Z, reduced-mass target irradiated with a high intensity laser pulse. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	21
16	Experimental studies of zonal flow and field in compact helical system plasma. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	20
17	^3H -H2AX and Phosphorylated ATM Focus Formation in Cancer Cells after Laser Plasma X Irradiation. <i>Radiation Research</i> , 2010, 174, 436.	1.5	19
18	Effect of ECH/ECCD on energetic-particle-driven MHD modes in helical plasmas. <i>Nuclear Fusion</i> , 2020, 60, 066018.	3.5	19

#	ARTICLE	IF	CITATIONS
19	Stabilization of energetic-ion-driven MHD modes by ECCD in Heliotron J. Nuclear Fusion, 2013, 53, 113041.	3.5	18
20	Direct Measurement of a Toroidally Directed Zonal Flow in a Toroidal Plasma. Physical Review Letters, 2019, 122, 105001.	7.8	15
21	Zonal flow driven by energetic particle during magneto-hydro-dynamic burst in a toroidal plasma. Plasma Physics and Controlled Fusion, 2007, 49, 1945-1952.	2.1	13
22	Evaluation of local magnetic field fluctuation in a toroidal plasma with heavy ion beam probe. Plasma Physics and Controlled Fusion, 2007, 49, 845-855.	2.1	13
23	Comparison between supersonic molecular-beam injection and conventional gas-puffing for plasma performance in HeliotronJ. Journal of Nuclear Materials, 2011, 415, S443-S446.	2.7	12
24	Development of a Heavy Ion Beam Probe for Measuring Electrostatic Potential Profile and Its Fluctuation in LHD. Plasma Science and Technology, 2009, 11, 460-464.	1.5	11
25	Design of a new high repetition rate Nd:YAG Thomson scattering system for Heliotron J. Review of Scientific Instruments, 2010, 81, 10D532.	1.3	11
26	Consideration of magnetic field fluctuation measurements in torus plasma with a heavy ion beam probe. Review of Scientific Instruments, 2005, 76, 043504.	1.3	10
27	Measurement of electrostatic potential fluctuation using heavy ion beam probe in large helical device. Review of Scientific Instruments, 2008, 79, 10F318.	1.3	10
28	Development of 6-MeV Heavy Ion Beam Probe on LHD. Fusion Science and Technology, 2010, 58, 436-444.	1.1	10
29	Edge plasma responses to energetic-particle-driven MHD instability in Heliotron J. Nuclear Fusion, 2016, 56, 016009.	3.5	10
30	Characteristics of electron internal transport barrier in Heliotron J. Plasma Physics and Controlled Fusion, 2017, 59, 055013.	2.1	10
31	ECCD Experiments Using the Upgraded Launching System in Heliotron J. Contributions To Plasma Physics, 2010, 50, 656-660.	1.1	9
32	Density fluctuation measurements using beam emission spectroscopy on Heliotron J. Review of Scientific Instruments, 2012, 83, 10D535.	1.3	9
33	Prescription for density profile reconstruction using a heavy ion beam probe. Review of Scientific Instruments, 2003, 74, 3335-3340.	1.3	8
34	Influence of trapped electrons on ECCD in Heliotron J. Nuclear Fusion, 2011, 51, 103035.	3.5	8
35	Quantitative measurement of hard x-ray spectra for high intensity laser produced plasma. Review of Scientific Instruments, 2012, 83, 053502.	1.3	8
36	Development of a New Far Infrared Laser Interferometer in Heliotron J and First Results. Plasma and Fusion Research, 2015, 10, 1402091-1402091.	0.7	8

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37	Study of Edge Transport Barrier Formation on CHS Plasma. Plasma and Fusion Research, 2006, 1, 032-032.	0.7	8
38	Edge and internal transport barrier formations in CHS. Nuclear Fusion, 2005, 45, 863-870.	3.5	7
39	Reconstruction method of local density fluctuation for heavy ion beam probe measurements. Review of Scientific Instruments, 2007, 78, 063502.	1.3	7
40	Observation of Edge Plasma Fluctuations with a Fast Camera in Heliotron J. Plasma Science and Technology, 2013, 15, 213-216.	1.5	7
41	High-density experiments with hydrogen ice pellet injection and analysis of pellet penetration depth in Heliotron J. Plasma Physics and Controlled Fusion, 2019, 61, 075014.	2.1	7
42	Simultaneous measurements of density and potential fluctuation with heavy ion beam probe in the Compact Helical System. Review of Scientific Instruments, 2004, 75, 3505-3507.	1.3	6
43	Development of zeolite ion source for beam probe measurements of high temperature plasma. Review of Scientific Instruments, 2006, 77, 03B704.	1.3	6
44	Plasma startup using neutral beam injection assisted by 2.45 GHz microwaves in Heliotron J. Nuclear Fusion, 2011, 51, 062002.	3.5	6
45	Density profile measurement with a heavy ion beam probe in a toroidal plasma of the compact helical system. Review of Scientific Instruments, 2018, 89, 113507.	1.3	6
46	Spatial characterization of edge zonal flows in the TJ-II stellarator: the roles of plasma heating and isotope mass. Plasma Physics and Controlled Fusion, 2021, 63, 044002.	2.1	6
47	First Application of 3D Peripheral Plasma Transport Code EMC3-EIRENE to Heliotron J. Plasma and Fusion Research, 2019, 14, 3403127-3403127.	0.7	6
48	Peripheral plasma measurement during SMBI in Heliotron J using fast cameras. Journal of Nuclear Materials, 2011, 415, S447-S450.	2.7	5
49	Edge turbulence measurement in Heliotron J using a combination of hybrid probe system and fast cameras. Journal of Nuclear Materials, 2013, 438, S540-S544.	2.7	5
50	A novel electron density reconstruction method for asymmetrical toroidal plasmas. Review of Scientific Instruments, 2014, 85, 053506.	1.3	5
51	Magnetohydrodynamic hybrid simulation of Alfvén eigenmodes in Heliotron J, a low shear helical axis stellarator/heliotron. Nuclear Fusion, 2020, 60, 096005.	3.5	5
52	Isotope effect on zonal flow and its configuration dependence in low-density electron-cyclotron-resonance heated plasmas in Heliotron J. Plasma Physics and Controlled Fusion, 2021, 63, 104002.	2.1	5
53	Measurement of Ion Temperature and Toroidal Rotation Velocity Using Charge Exchange Recombination Spectroscopy in Heliotron J. Plasma and Fusion Research, 2012, 7, 1402019-1402019.	0.7	5
54	Improved performance of electron cyclotron resonance heating by perpendicular injection in the Large Helical Device. Nuclear Fusion, 2021, 61, 026012.	3.5	5

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55	Measurements of spatial structure of plasma potential and density fluctuations by multichannel heavy ion beam probe on large helical device. Review of Scientific Instruments, 2008, 79, 10F320.	1.3	4
56	Electron Density Profile Measurement in Heliotron J with a Microwave AM Reflectometer. Contributions To Plasma Physics, 2010, 50, 646-650.	1.1	4
57	Fast Ion Response to Energetic Particle-Driven MHD Activity in Heliotron J. Contributions To Plasma Physics, 2010, 50, 534-539.	1.1	4
58	Electron Density Profile Behavior during SMBI Measured with AM Reflectometer in Heliotron J Plasma. Plasma and Fusion Research, 2011, 6, 1402111-1402111.	0.7	4
59	Highly time-resolved evaluation technique of instantaneous amplitude and phase difference using analytic signals for multi-channel diagnostics. Review of Scientific Instruments, 2014, 85, 11E814.	1.3	4
60	Gas puff modulation experiment measured by interferometers in Heliotron J. Journal of Instrumentation, 2016, 11, C02035-C02035.	1.2	4
61	Numerical investigation into the peripheral energetic-particle-driven MHD modes in Heliotron J with free boundary hybrid simulation. Nuclear Fusion, 2021, 61, 116065.	3.5	4
62	First Observation of High Density Edge Transport Barrier Formation during Reheat Mode of Helical Plasma in CHS. Plasma and Fusion Research, 2006, 1, 047-047.	0.7	4
63	Physics of Heliotron J Confinement. Plasma and Fusion Research, 2010, 5, S2003-S2003.	0.7	4
64	Study of seed plasma generation for NBI plasma start-up using non-resonant microwave launch in Heliotron J. Plasma Physics and Controlled Fusion, 2020, 62, 065009.	2.1	4
65	Observation of internal coherent mode structure using heavy ion beam probe. Review of Scientific Instruments, 2006, 77, 10F517.	1.3	3
66	Characteristics of high density edge transport barrier with reheat mode on CHS. Journal of Physics: Conference Series, 2008, 123, 012006.	0.4	3
67	Application of beam emission spectroscopy to NBI plasmas of Heliotron J. Review of Scientific Instruments, 2010, 81, 10D726.	1.3	3
68	Present Status of the Nd:YAG Thomson Scattering System Development for Time Evolution Measurement of Plasma Profile on Heliotron J. Plasma Science and Technology, 2013, 15, 240-243.	1.5	3
69	Development of a Laser Timing Controller for the High Time-Resolution Nd:YAG Thomson Scattering System in Heliotron J. Plasma and Fusion Research, 2013, 8, 2402117-2402117.	0.7	3
70	Electron Density Reconstruction and Optimum Beam Arrangement of Far-Infrared Interferometer in Heliotron J. Plasma and Fusion Research, 2014, 9, 3402043-3402043.	0.7	3
71	Neoclassical parallel flow calculation in the presence of external parallel momentum sources in Heliotron J. Physics of Plasmas, 2016, 23, 032511.	1.9	3
72	Development of beam emission spectroscopy for turbulence transport study in Heliotron J. Review of Scientific Instruments, 2016, 87, 11E519.	1.3	3

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73	Poloidal Flow Velocity Measurement in High-Density NBI Plasmas of Heliotron J. Plasma and Fusion Research, 2018, 13, 1202077-1202077.	0.7	3
74	Application of portable near-infrared spectrometer to Heliotron J plasma diagnostics. Review of Scientific Instruments, 2018, 89, 10D129.	1.3	3
75	Design of Compact Multi-Path Thomson Scattering Diagnostic with Signal Delay System in Heliotron J. Plasma and Fusion Research, 2020, 15, 2401044-2401044.	0.7	3
76	Recipe for Fabricating Zeolite Ion Source for Plasma Probing. Japanese Journal of Applied Physics, 2007, 46, 1710-1712.	1.5	2
77	Interpretation of Plasma Fluctuation Data from Combination Measurement of a Perpendicular-View Camera and a Langmuir Probe in Heliotron J. Fusion Science and Technology, 2015, 68, 758-765.	1.1	2
78	Faraday-cup-type lost fast ion detector on Heliotron J. Review of Scientific Instruments, 2016, 87, 11D818.	1.3	2
79	Near-infrared Zeeman spectroscopy for the spatially resolved measurement of helium emission spectra in Heliotron J. Plasma Physics and Controlled Fusion, 2019, 61, 025001.	2.1	2
80	Development of a multi-channel 320ÅGHz interferometer for high density plasma measurement in Heliotron J. Review of Scientific Instruments, 2021, 92, 053519.	1.3	2
81	Sensitivity improvement of infrared imaging video bolometer for divertor plasma measurement. Review of Scientific Instruments, 2021, 92, 063521.	1.3	2
82	First Application of an InfraRed Imaging Video Bolometer to Heliotron J Plasma. Plasma and Fusion Research, 2021, 16, 1202079-1202079.	0.7	2
83	Role of pre-ionization in NBI plasma start-up of Heliotron J using non-resonant microwave heating. Nuclear Fusion, 2021, 61, 116009.	3.5	2
84	Numerical analysis of heat load distribution in Heliotron J with magnetic field tracing and plasma transport modeling. Plasma Physics and Controlled Fusion, 2021, 63, 115002.	2.1	2
85	Measurement of Radial Electric Field Using Doppler Reflectometer in High-Density Plasma of Heliotron J. Plasma and Fusion Research, 2020, 15, 2402064-2402064.	0.7	2
86	Local observations of fast ion responses to energetic particle modes using a directional probe in the Compact Helical System (CHS). Nuclear Fusion, 2008, 48, 084005.	3.5	1
87	Simultaneous realization of a high density edge transport barrier and an improved L-mode on CHS. Nuclear Fusion, 2009, 49, 085018.	3.5	1
88	Monochromatic X-Ray Emission from Laser Produced Plasma with A Clean Ultra-Short Laser Pulse. The Review of Laser Engineering, 2010, 38, 698-701.	0.0	1
89	Multichannel Langmuir probe for turbulence study in Heliotron J. Review of Scientific Instruments, 2010, 81, 10E137.	1.3	1
90	Recent Progress in Plasma Control Studies on the Improvement of Plasma Performance in Heliotron J. Plasma Science and Technology, 2011, 13, 21-25.	1.5	1

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91	Experimental Study of Plasma Breakdown by Toroidally Injected Electron Cyclotron Waves in Heliotron J. Plasma and Fusion Research, 2012, 7, 1202153-1202153.	0.7	1
92	Observation of Intermittent Transition by Electrode Biasing in Heliotron J. Plasma and Fusion Research, 2015, 10, 3402061-3402061.	0.7	1
93	Development of a multi-channel capacitive probe for electric field measurements with fine spatial and high time resolution. Review of Scientific Instruments, 2018, 89, 10J118.	1.3	1
94	Observation of a beam-driven low-frequency mode in Heliotron J. Nuclear Fusion, 2019, 59, 056001.	3.5	1
95	Measurement of stray millimeter-wave radiation from a 70-GHz ECH/ECCD system in Heliotron J. Fusion Engineering and Design, 2019, 144, 40-45.	1.9	1
96	Observation of Edge Filamentary Structure Motion during Supersonic Molecular-Beam Injection Using a Fast Camera in Heliotron J. Plasma and Fusion Research, 2013, 8, 1402066-1402066.	0.7	1
97	Measurement of Electron Temperature Profile and Fluctuation with ECE Radiometer System in Heliotron J. Plasma and Fusion Research, 2020, 15, 2402038-2402038.	0.7	1
98	Measurement of Radial Correlation Lengths of Electron Density Fluctuations in Heliotron J Using O-Mode Reflectometry. Plasma and Fusion Research, 2020, 15, 1202054-1202054.	0.7	1
99	Improved Confinement and Related Physics Study in the Compact Helical System. Fusion Science and Technology, 2007, 51, 46-53.	1.1	0
100	Magnetic field fluctuation measurement with a heavy ion beam probe in the Large Helical Device. Review of Scientific Instruments, 2008, 79, 10F317.	1.3	0
101	X-ray spectroscopy to study energy transport of a low-Z, reduced mass target irradiated with a high-intensity laser pulse. High Energy Density Physics, 2011, 7, 117-123.	1.5	0
102	Probe method for measuring the diffusion coefficient in edge plasma. Japanese Journal of Applied Physics, 2016, 55, 038004.	1.5	0
103	Response of a core coherent density oscillation on electron cyclotron resonance heating in Heliotron J plasma. Physics of Plasmas, 2018, 25, 012513.	1.9	0
104	Development of a high-speed full digital processing phase detector for interferometry. Review of Scientific Instruments, 2018, 89, 10K108.	1.3	0
105	Current status and plan of development of Nd:YAG laser Thomson scattering system in Heliotron J. Journal of Instrumentation, 2020, 15, C02011-C02011.	1.2	0
106	Phase tracking with Hilbert transform and nonlinear wave-wave coupling analysis on the HL-2A tokamak. Nuclear Fusion, 2021, 61, 026024.	3.5	0
107	Development of beam emission spectroscopy in the helically symmetric experiment stellarator. Review of Scientific Instruments, 2021, 92, 063503.	1.3	0
108	Numerical Analysis of ICRF Minority Heating in Heliotron J. Plasma and Fusion Research, 2011, 6, 2402063-2402063.	0.7	0