

# Kazunobu Nagasaki

## List of Publications by Year in descending order

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260  
papers

2,671  
citations

279487

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301761

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260  
docs citations

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times ranked

1204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Achievement of high fusion triple product, steady-state sustainment and real-time NTM stabilization in high- $\beta$ ELMy H-mode discharges in JT-60U. Nuclear Fusion, 2003, 43, 1272-1278.	1.6	142
2	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	1.6	116
3	First plasmas in Heliotron J. Nuclear Fusion, 2001, 41, 833-844.	1.6	95
4	Neoclassical tearing mode control using electron cyclotron current drive and magnetic island evolution in JT-60U. Nuclear Fusion, 2009, 49, 055006.	1.6	74
5	Study of a helical axis heliotron. Nuclear Fusion, 2000, 40, 569-573.	1.6	64
6	Stabilization and prevention of the 2/1 neoclassical tearing mode for improved performance in DIII-D. Nuclear Fusion, 2007, 47, 371-377.	1.6	63
7	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	1.6	54
8	The negative triangularity tokamak: stability limits and prospects as a fusion energy system. Nuclear Fusion, 2015, 55, 063013.	1.6	53
9	Stabilization effect of early ECCD on a neoclassical tearing mode in the JT-60U tokamak. Nuclear Fusion, 2003, 43, L7-L10.	1.6	50
10	H-mode confinement of Heliotron J. Nuclear Fusion, 2005, 45, 1557-1570.	1.6	47
11	Extended steady-state and high-beta regimes of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2007, 47, S668-S676.	1.6	44
12	Realization of high $T_i$ plasmas and confinement characteristics of ITB plasmas in the LHD deuterium experiments. Nuclear Fusion, 2018, 58, 106028.	1.6	39
13	Goals and status of Heliotron J. Plasma Physics and Controlled Fusion, 2000, 42, 1151-1164.	0.9	36
14	Stabilization of neoclassical tearing mode by ECCD and its evolution simulation on JT-60U tokamak. Nuclear Fusion, 2005, 45, 1608-1617.	1.6	36
15	Current Status of Large Helical Device and Its Prospect for Deuterium Experiment. Fusion Science and Technology, 0, , 1-12.	0.6	36
16	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	1.6	35
17	Plasma wall interaction in long-pulse helium discharge in LHD " Microscopic modification of the wall surface and its impact on particle balance and impurity generation. Journal of Nuclear Materials, 2015, 463, 91-98.	1.3	35
18	Objectives and design of the JT-60 superconducting tokamak. Nuclear Fusion, 2003, 43, 606-613.	1.6	33

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19	Stabilization of neoclassical tearing modes by electron cyclotron current drive in JT-60U. Nuclear Fusion, 2007, 47, 773-782.	1.6	32
20	High Ion Temperature Mode in Heliotron-E. Physical Review Letters, 1996, 76, 1268-1271.	2.9	31
21	Edge fluctuation studies in Heliotron J. Journal of Nuclear Materials, 2005, 337-339, 332-336.	1.3	29
22	Suppression of fast-ion-driven MHD instabilities by ECH/ECCD on Heliotron J. Nuclear Fusion, 2017, 57, 126065.	1.6	29
23	Application of a grating polarizer to the 106.4 GHz ECH system on Heliotron. Review of Scientific Instruments, 1995, 66, 3432-3437.	0.6	25
24	Development of over-MW gyrotrons for fusion at 14 GHz to sub-THz frequencies. Nuclear Fusion, 2017, 57, 066001.	1.6	25
25	Numerical Analysis of Neoclassical Tearing Mode Stabilization by Electron Cyclotron Current Drive. Journal of Plasma and Fusion Research, 2004, 80, 605-613.	0.4	25
26	Recent results from deuterium experiments on the large helical device and their contribution to fusion reactor development. Nuclear Fusion, 2022, 62, 042019.	1.6	25
27	Polarizers with non-rectangular grooves for high power millimeter waves. Fusion Engineering and Design, 2001, 53, 491-497.	1.0	24
28	Polarizer with Nonrectangular Grooves in the HE11 Mode Transmission Line. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 823-843.	0.6	23
29	Control of non-inductive current in Heliotron J*. Nuclear Fusion, 2007, 47, 1045-1052.	1.6	23
30	Searching for O-X-B mode-conversion window with monitoring of stray microwave radiation in LHD. Review of Scientific Instruments, 2006, 77, 10E931.	0.6	22
31	Characteristics of Electron Density Fluctuations in Heliotron E Measured Using a Wide Beam Laser Phase Contrast Method. Journal of the Physical Society of Japan, 1993, 62, 3092-3105.	0.7	21
32	Detection of the free boundary plasma shift in a toroidal helical plasma on Heliotron-E. Nuclear Fusion, 1995, 35, 173-182.	1.6	20
33	Effects of magnetic shear on electron cyclotron resonance heating in heliotron/torsatron configurations. Physics of Plasmas, 1999, 6, 556-564.	0.7	20
34	Effects of Supersonic Molecular Beam Injection (SMBI) on Plasma Performance in Heliotron J. Contributions To Plasma Physics, 2010, 50, 639-645.	0.5	20
35	Development of high power gyrotrons for advanced fusion devices. Nuclear Fusion, 2019, 59, 066009.	1.6	20
36	Electron Bernstein wave heating in heliotron configurations. Plasma Physics and Controlled Fusion, 2002, 44, 409-422.	0.9	19

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37	Effect of ECH/ECCD on energetic-particle-driven MHD modes in helical plasmas. Nuclear Fusion, 2020, 60, 066018.	1.6	19
38	High-speed 2-D image measurement for plasma-wall interaction studies. Journal of Nuclear Materials, 2005, 337-339, 1073-1076.	1.3	18
39	Observation of Magnetohydrodynamic Instabilities in Heliotron J Plasmas. Fusion Science and Technology, 2007, 51, 92-96.	0.6	18
40	Stabilization of energetic-ion-driven MHD modes by ECCD in Heliotron J. Nuclear Fusion, 2013, 53, 113041.	1.6	18
41	Diamagnetic double-loop method for a highly sensitive measurement of energy stored in a Stellarator plasma. Review of Scientific Instruments, 2001, 72, 3859-3863.	0.6	17
42	Progress on Electron Cyclotron Heating and Electron Cyclotron Current Drive Experiments in LHD. Fusion Science and Technology, 2006, 50, 403-411.	0.6	17
43	Extension of operational regime in high-temperature plasmas and effect of ECRH on ion thermal transport in the LHD. Nuclear Fusion, 2017, 57, 086029.	1.6	17
44	Thermally assisted photoemission effect on $CeB_6$ and $LaB_6$ for application as photocathodes. Physical Review Accelerators and Beams, 2017, 20, .	0.6	17
45	ECCD Experiments in the TJ-II Stellarator. Fusion Science and Technology, 2008, 53, 254-260.	0.6	16
46	Electron Bernstein wave heating via the slow X $\omega$ mode conversion process with direct launching from the high field side in LHD. Nuclear Fusion, 2009, 49, 115005.	1.6	16
47	Development of steady-state operation using ion cyclotron heating in the Large Helical Device. Physics of Plasmas, 2014, 21, 061505.	0.7	16
48	Development of gyrotrons for fusion with power exceeding 1 MW over a wide frequency range. Nuclear Fusion, 2015, 55, 093009.	1.6	16
49	Complete integral suppression of Pfirsch-Schlüter current in a stellarator plasma in Heliotron E. Physics of Plasmas, 1998, 5, 481-485.	0.7	15
50	Observation of H-Mode Operation Windows for ECH Plasmas in Heliotron J. Fusion Science and Technology, 2004, 46, 288-298.	0.6	15
51	Multi-machine analysis of turbulent transport in helical systems via gyrokinetic simulation. Nuclear Fusion, 2017, 57, 066010.	1.6	15
52	Confinement characteristics of ECH plasmas in Heliotron J. Nuclear Fusion, 2004, 44, 47-55.	1.6	14
53	Experimental study of plasma breakdown by second harmonic electron cyclotron waves in Heliotron J. Nuclear Fusion, 2005, 45, 13-21.	1.6	14
54	Magnetic property of a staggered-array undulator using a bulk high-temperature superconductor. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	14

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55	Optimization of the high harmonic ECRH scenario to extend a heating plasma parameter range in LHD. Nuclear Fusion, 2015, 55, 063035.	1.6	14
56	Effect of radial electric field and bulk plasma velocity shear on ion thermal transport in Heliotron-E. Plasma Physics and Controlled Fusion, 1996, 38, 1433-1437.	0.9	13
57	Main divertor flows in Heliotron E: their distribution and dependence on NBI and ECH. Nuclear Fusion, 2000, 40, 785-797.	1.6	13
58	Demonstration of a High-Field Short-Period Undulator Using Bulk High-Temperature Superconductor. Applied Physics Express, 2013, 6, 042701.	1.1	13
59	Launching conditions for electron cyclotron heating in a sheared magnetic field. Nuclear Fusion, 1995, 35, 609-612.	1.6	12
60	The polarization of electron cyclotron emission spectra in the Large Helical Device. Physics of Plasmas, 2000, 7, 3707-3713.	0.7	12
61	Asymmetric divertor plasma distribution observed in Heliotron J ECH discharges. Journal of Nuclear Materials, 2003, 313-316, 947-951.	1.3	12
62	A 70-GHz Electron Cyclotron Resonance Heating System for Heliotron J. Fusion Science and Technology, 2004, 45, 41-48.	0.6	12
63	Progress Toward Steady-State Operation in LHD Using Electron Cyclotron Waves. Fusion Science and Technology, 2010, 58, 551-559.	0.6	12
64	Comparison between supersonic molecular-beam injection and conventional gas-puffing for plasma performance in Heliotron J. Journal of Nuclear Materials, 2011, 415, S443-S446.	1.3	12
65	First measurement of time evolution of electron temperature profiles with Nd:YAG Thomson scattering system on Heliotron J. Review of Scientific Instruments, 2014, 85, 11D819.	0.6	12
66	Recent H-mode Results on ECH plasmas in Heliotron J. Journal of Plasma and Fusion Research, 2003, 79, 1111-1112.	0.4	12
67	Impurity behavior in boronized Heliotron E. Journal of Nuclear Materials, 1995, 220-222, 1052-1056.	1.3	11
68	Influence of magnetic configuration and heating methods on distribution of diverted plasmas in Heliotron E. Journal of Nuclear Materials, 1999, 266-269, 1139-1144.	1.3	11
69	Configuration Control for the Confinement Improvement in Heliotron J. Fusion Science and Technology, 2006, 50, 352-360.	0.6	11
70	Effect of magnetic field ripple on electron cyclotron current drive in Heliotron J. Nuclear Fusion, 2010, 50, 025003.	1.6	11
71	Design of a new high repetition rate Nd:YAG Thomson scattering system for Heliotron J. Review of Scientific Instruments, 2010, 81, 10D532.	0.6	11
72	Reformation of the Electron Internal Transport Barrier with the Appearance of a Magnetic Island. Scientific Reports, 2020, 10, 5.	1.6	11

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73	Dependence of Plasma Profiles on ECH Power Absorption in Heliotron-E. Journal of the Physical Society of Japan, 1998, 67, 1625-1635.	0.7	10
74	Cathode grid current dependence of $D(d, n)^{3\text{He}}$ reaction rates in an inertial electrostatic confinement device driven by a ring-shaped magnetron ion source. Plasma Physics and Controlled Fusion, 2010, 52, 095010.	0.9	10
75	Analysis of ECRH Pre-Ionization for Plasma Start-Up in JT-60SA. Plasma and Fusion Research, 2012, 7, 2403104-2403104.	0.3	10
76	One-Dimensional Analysis of ECRH-Assisted Plasma Start-Up in JT-60SA. Fusion Science and Technology, 2015, 67, 693-704.	0.6	10
77	Overview of transport and MHD stability study: focusing on the impact of magnetic field topology in the Large Helical Device. Nuclear Fusion, 2015, 55, 104018.	1.6	10
78	Edge plasma responses to energetic-particle-driven MHD instability in Heliotron J. Nuclear Fusion, 2016, 56, 016009.	1.6	10
79	Characteristics of electron internal transport barrier in Heliotron J. Plasma Physics and Controlled Fusion, 2017, 59, 055013.	0.9	10
80	Initial Results of Density Modulation Experiment for Study of Hydrogen Isotope Effects on Particle Transport in Heliotron J. Journal of the Physical Society of Japan, 2017, 86, 064501.	0.7	10
81	Modeling of the ECCD injection effect on the Heliotron J and LHD plasma stability. Nuclear Fusion, 2020, 60, 112015.	1.6	10
82	First Demonstration of Rotational Transform Control by Electron Cyclotron Current Drive in Large Helical Device. Plasma and Fusion Research, 2008, 3, S1077-S1077.	0.3	10
83	Microwave Reflectometry Diagnostics: Present Day Systems and Challenges for Future Devices. Plasma and Fusion Research, 2012, 7, 2502055-2502055.	0.3	10
84	Vacuum Magnetic Surface of $l=2$ Helical Systems. Journal of the Physical Society of Japan, 1988, 57, 2000-2009.	0.7	9
85	Waveguide Transmission Line for 106-GHz Electron Cyclotron Heating in Heliotron-E. Fusion Science and Technology, 1997, 32, 287-295.	0.6	9
86	Behavior of pellet injected Li into Heliotron E plasmas. Journal of Nuclear Materials, 1997, 241-243, 956-960.	1.3	9
87	Spontaneous shift of divertor plasma footprints during a discharge in a helical-axis heliotron device. Nuclear Fusion, 2007, 47, 395-402.	1.6	9
88	A Polarizer with Sinusoidal Grooves in the Electron Cyclotron Resonance Heating System of the HL-2A Tokamak. Plasma Science and Technology, 2009, 11, 619-624.	0.7	9
89	ECCD Experiments Using the Upgraded Launching System in Heliotron J. Contributions To Plasma Physics, 2010, 50, 656-660.	0.5	9
90	Density fluctuation measurements using beam emission spectroscopy on Heliotron J. Review of Scientific Instruments, 2012, 83, 10D535.	0.6	9

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91	Recent Upgrading of ECRH System and Studies to Improve ECRH Performance in the LHD. EPJ Web of Conferences, 2015, 87, 02011.	0.1	9
92	Analysis of the scrape-off layer plasma in toroidal helical systems. Nuclear Fusion, 1989, 29, 1299-1305.	1.6	8
93	Enhancement and Suppression of Density Fluctuations around Electron Drift Frequency in Heliotron E Plasmas Measured Using CO <sub>2</sub> Laser Phase Contrast Method. Journal of the Physical Society of Japan, 1996, 65, 3434-3437.	0.7	8
94	Study of high energy particles produced by ICRF heating in Heliotron-E. Nuclear Fusion, 1996, 36, 465-474.	1.6	8
95	Profile control and its effects on plasma confinement in Heliotron E. Nuclear Fusion, 1999, 39, 1667-1677.	1.6	8
96	High-speed 2D measurement of edge turbulence phenomena with a fast camera in Heliotron J. Journal of Nuclear Materials, 2007, 363-365, 628-632.	1.3	8
97	Influence of trapped electrons on ECCD in Heliotron J. Nuclear Fusion, 2011, 51, 103035.	1.6	8
98	Development of a New Far Infrared Laser Interferometer in Heliotron J and First Results. Plasma and Fusion Research, 2015, 10, 1402091-1402091.	0.3	8
99	ECCD Experiments in Heliotron J, TJ-II, CHS, and LHD. Plasma and Fusion Research, 2008, 3, S1008-S1008.	0.3	8
100	106-GHz Electron Cyclotron Heating System for Heliotron-E. Fusion Science and Technology, 1994, 25, 419-427.	0.6	7
101	Dipole moment of the Pfirsch-Schluter current in a finite beta stellarator plasma in Heliotron E. Nuclear Fusion, 1997, 37, 13-18.	1.6	7
102	Formation and termination of high ion temperature mode in heliotron/torsatron plasmas. Plasma Physics and Controlled Fusion, 1998, 40, 793-797.	0.9	7
103	Fast Ion Dynamics of NBI Plasmas in Heliotron J. Fusion Science and Technology, 2006, 50, 428-433.	0.6	7
104	Diagnostic System Development for D-D and D- <sup>3</sup> He Reaction Distributions in an Inertial-Electrostatic Confinement Device by Collimated Proton Measurements. Fusion Science and Technology, 2009, 56, 528-532.	0.6	7
105	Observation of Edge Plasma Fluctuations with a Fast Camera in Heliotron J. Plasma Science and Technology, 2013, 15, 213-216.	0.7	7
106	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.	0.9	7
107	Experimental Conditions for Improved Confinement Modes in Heliotron J. Journal of Plasma and Fusion Research, 2005, 81, 949-959.	0.4	7
108	Generation of poloidal electric field with electron cyclotron resonance heating and its effects on particle confinement in Heliotron-E. Plasma Physics and Controlled Fusion, 1996, 38, 1307-1312.	0.9	6

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109	Confirmation of theoretical evaluation of equilibrium current in helical systems - through the Heliotron E result for dipole current suppression and reversal. Nuclear Fusion, 2000, 40, 1909-1916.	1.6	6
110	Experimental Observations of O-X-B Heating of Overdense Plasmas in CHS. Fusion Science and Technology, 2007, 52, 216-220.	0.6	6
111	Beam Energy Compensation in a Thermionic RF Gun by Cavity Detuning. IEEE Transactions on Nuclear Science, 2009, 56, 1487-1491.	1.2	6
112	Plasma startup using neutral beam injection assisted by 2.45 GHz microwaves in Heliotron J. Nuclear Fusion, 2011, 51, 062002.	1.6	6
113	Effect of supersonic molecular-beam injection on edge fluctuation and particle transport in Heliotron J. Physics of Plasmas, 2014, 21, 042308.	0.7	6
114	Study on anomalous photoemission of LaB6 at high temperatures. Physica Scripta, 2019, 94, 075701.	1.2	6
115	Ray Tracing Calculation of ECRH Power Absorption for Heliotron J.. Journal of Plasma and Fusion Research, 2002, 78, 996-997.	0.4	6
116	Visible Imaging of Edge Fluctuations in Heliotron J. Journal of Plasma and Fusion Research, 2004, 80, 179-180.	0.4	6
117	O-X-B Heating of Overdense Plasmas by 54.5 GHz Electron Cyclotron Waves in CHS. Plasma and Fusion Research, 2006, 1, 029-029.	0.3	6
118	Electron Bernstein Wave Heating through Slow X-B Mode Conversion in CHS. Plasma and Fusion Research, 2006, 1, 053-053.	0.3	6
119	Effect of Toroidal Current on Rotational Transform Profile by MHD Activity Measurement in Heliotron J. Plasma and Fusion Research, 2008, 3, S1067-S1067.	0.3	6
120	First Application of 3D Peripheral Plasma Transport Code EMC3-EIRENE to Heliotron J. Plasma and Fusion Research, 2019, 14, 3403127-3403127.	0.3	6
121	A study of transition phenomena associated with particle transport improvement in ECRH plasmas on Heliotron E. Plasma Physics and Controlled Fusion, 1994, 36, A231-A236.	0.9	5
122	Experiments on Li pellet injection into Heliotron E. Plasma Physics and Controlled Fusion, 1998, 40, 1785-1801.	0.9	5
123	Island divertor in a helical-axis heliotron device (Heliotron J). Journal of Nuclear Materials, 2001, 290-293, 678-682.	1.3	5
124	Influence of Experimental Conditions on Distribution of Divertor Plasma Flow in the Heliotron-E Fusion Device. Plasma Devices and Operations, 2002, 10, 227-249.	0.6	5
125	Measurement of the energy distribution of fast excited atoms by Doppler shift spectroscopy in an inertial-electrostatic confinement fusion device. , 0, , .		5
126	Formation and Confinement of High-Energy Ions in Heliotron J. Fusion Science and Technology, 2006, 50, 287-293.	0.6	5



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127	Dependence of the confinement of fast ions generated by ICRF heating on the field configuration in Heliotron J. Nuclear Fusion, 2007, 47, 1346-1352.	1.6	5
128	2-D Image Diagnostic Technique for Edge Turbulence Using Fast Cameras. Plasma and Fusion Research, 2007, 2, S1055-S1055.	0.3	5
129	Comparison of edge plasma behavior at different poloidal positions in Heliotron J. Journal of Nuclear Materials, 2009, 390-391, 428-431.	1.3	5
130	Peripheral plasma measurement during SMBI in Heliotron J using fast cameras. Journal of Nuclear Materials, 2011, 415, S447-S450.	1.3	5
131	Edge turbulence measurement in Heliotron J using a combination of hybrid probe system and fast cameras. Journal of Nuclear Materials, 2013, 438, S540-S544.	1.3	5
132	A novel electron density reconstruction method for asymmetrical toroidal plasmas. Review of Scientific Instruments, 2014, 85, 053506.	0.6	5
133	Second harmonic ECRH breakdown experiments in the TJ-II stellarator. Nuclear Fusion, 2015, 55, 043018.	1.6	5
134	Magnetohydrodynamic hybrid simulation of Alfvén eigenmodes in Heliotron J, a low shear helical axis stellarator/heliotron. Nuclear Fusion, 2020, 60, 096005.	1.6	5
135	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.	0.9	5
136	Measurement of Ion Temperature and Toroidal Rotation Velocity Using Charge Exchange Recombination Spectroscopy in Heliotron J. Plasma and Fusion Research, 2012, 7, 1402019-1402019.	0.3	5
137	ECCD Experiment Using an Upgraded ECH System on LHD. Plasma and Fusion Research, 2012, 7, 2402020-2402020.	0.3	5
138	ECE diagnostic using multi-channel radiometer in Heliotron-E. Fusion Engineering and Design, 1997, 34-35, 463-467.	1.0	4
139	Power Absorption Calculation for Electron Cyclotron Resonance Heating in H-1 Heliac. Journal of the Physical Society of Japan, 2001, 70, 617-620.	0.7	4
140	Plasma Experiments Using a New 170 GHz EC System and a Simple Model for Plasma Production on the TRIAM-1M. Journal of Plasma and Fusion Research, 2004, 80, 53-58.	0.4	4
141	Analysis of the D $\pm$ spectral line shape on the carbon limiter insertion experiments in Heliotron J. Journal of Nuclear Materials, 2005, 337-339, 490-494.	1.3	4
142	Ray Tracing Calculation of ECRH Power Absorption Profile in Heliotron J. Journal of Plasma and Fusion Research, 2005, 81, 48-56.	0.4	4
143	Neutral Transport Analysis in a Non-Axisymmetric Plasma Confining System Based on a Monte-Carlo Simulation. Contributions To Plasma Physics, 2008, 48, 141-146.	0.5	4
144	Research of Electron Cyclotron Resonance Heating Methods and Relevant Experiments. Fusion Science and Technology, 2010, 58, 539-550.	0.6	4

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145	Electron Density Profile Measurement in Heliotron J with a Microwave AM Reflectometer. Contributions To Plasma Physics, 2010, 50, 646-650.	0.5	4
146	Fast Ion Response to Energetic Particle-Driven MHD Activity in Heliotron J. Contributions To Plasma Physics, 2010, 50, 534-539.	0.5	4
147	Electron Density Profile Behavior during SMBI Measured with AM Reflectometer in Heliotron J Plasma. Plasma and Fusion Research, 2011, 6, 1402111-1402111.	0.3	4
148	Modeling the time variation of beam-grid fusion reaction rates in an Inertial Electrostatic Confinement device driven by a ring-shaped magnetron ion source. Plasma Physics and Controlled Fusion, 2011, 53, 045006.	0.9	4
149	Gas fueling effect on plasma profile in Heliotron J. Journal of Nuclear Materials, 2013, 438, S453-S458.	1.3	4
150	Effect of magnetic field configuration on parallel plasma flow during neutral beam injection in Heliotron J. Plasma Physics and Controlled Fusion, 2013, 55, 035012.	0.9	4
151	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.	0.6	4
152	Injection barrel with a tapered structure for a low speed and small size cryogenic hydrogen pellet in medium-sized plasma fusion devices. Review of Scientific Instruments, 2016, 87, 103503.	0.6	4
153	Gas puff modulation experiment measured by interferometers in Heliotron J. Journal of Instrumentation, 2016, 11, C02035-C02035.	0.5	4
154	Numerical investigation into the peripheral energetic-particle-driven MHD modes in Heliotron J with free boundary hybrid simulation. Nuclear Fusion, 2021, 61, 116065.	1.6	4
155	Studies of the Confinement and the Toroidal Current Control in Heliotron J. Journal of Plasma and Fusion Research, 2004, 80, 883-888.	0.4	4
156	First Observation of ECH by Electron Bernstein Waves Excited via X-B Mode Conversion Process in LHD. Plasma and Fusion Research, 2006, 1, 052-052.	0.3	4
157	Experimental Conditions for Electron Bernstein Wave Heating Using EC Waves Injected from High-Field Side in CHS. Plasma and Fusion Research, 2008, 3, S1076-S1076.	0.3	4
158	Physics of Heliotron J Confinement. Plasma and Fusion Research, 2010, 5, S2003-S2003.	0.3	4
159	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.	0.9	4
160	“Natural” divertor- and limiter-discharges in Heliotron E. Journal of Nuclear Materials, 1992, 196-198, 719-724.	1.3	3
161	Ion cyclotron range of frequency heating with hydrogen and helium minority species in Heliotron E. Fusion Engineering and Design, 1995, 26, 173-178.	1.0	3
162	Transition phenomena observed during edge electron cyclotron heating in the Heliotron-E helical device. Fusion Engineering and Design, 1995, 26, 159-165.	1.0	3

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163	Effects of trapped particles on distribution of divertor flow in Heliotron-E. Journal of Nuclear Materials, 2003, 313-316, 1234-1238.	1.3	3
164	Dependence of Toroidal Current on Bumpy Field Component in Heliotron J. Fusion Science and Technology, 2007, 51, 122-128.	0.6	3
165	Measurement of peripheral plasma turbulence using a fast camera in Heliotron J. Journal of Nuclear Materials, 2009, 390-391, 432-435.	1.3	3
166	Built-In Ion Source for Inertial Electrostatic Confinement in Low Pressure Regime. Fusion Science and Technology, 2009, 56, 523-527.	0.6	3
167	Application of beam emission spectroscopy to NBI plasmas of Heliotron J. Review of Scientific Instruments, 2010, 81, 10D726.	0.6	3
168	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.	0.7	3
169	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.	0.3	3
170	Electron Density Reconstruction and Optimum Beam Arrangement of Far-Infrared Interferometer in Heliotron J. Plasma and Fusion Research, 2014, 9, 3402043-3402043.	0.3	3
171	Neoclassical parallel flow calculation in the presence of external parallel momentum sources in Heliotron J. Physics of Plasmas, 2016, 23, 032511.	0.7	3
172	Comparison between Full Wave and Ray-Tracing Calculations to Examine Scenarios for Electron Bernstein Wave Heating in LHD. Plasma and Fusion Research, 2016, 11, 2403098-2403098.	0.3	3
173	Development of beam emission spectroscopy for turbulence transport study in Heliotron J. Review of Scientific Instruments, 2016, 87, 11E519.	0.6	3
174	Poloidal Flow Velocity Measurement in High-Density NBI Plasmas of Heliotron J. Plasma and Fusion Research, 2018, 13, 1202077-1202077.	0.3	3
175	Application of portable near-infrared spectrometer to Heliotron J plasma diagnostics. Review of Scientific Instruments, 2018, 89, 10D129.	0.6	3
176	Design of Compact Multi-Path Thomson Scattering Diagnostic with Signal Delay System in Heliotron J. Plasma and Fusion Research, 2020, 15, 2401044-2401044.	0.3	3
177	Studies of MHD Stability Using Data Mining Technique in Helical Plasmas. Plasma and Fusion Research, 2010, 5, 034-034.	0.3	3
178	Impurity behavior in Heliotron E. Journal of Nuclear Materials, 1992, 196-198, 303-307.	1.3	2
179	106 GHz electron cyclotron heating experiment on Heliotron-E. Fusion Engineering and Design, 1995, 26, 153-158.	1.0	2
180	Plasma flows and fluctuations in the edge region of Heliotron-E ECH plasmas. Journal of Nuclear Materials, 1995, 220-222, 288-292.	1.3	2

#	ARTICLE	IF	CITATIONS
181	A simulation study on energy recovery from spent electron beams in an S-band linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 133-136.	0.7	2
182	Plasma Confinement Characteristics in Heliotron J—Spontaneous Change of Plasma Confinement State. Plasma Science and Technology, 2004, 6, 2371-2376.	0.7	2
183	H $\pm$ measurements and neutral particle transport in Heliotron J. Review of Scientific Instruments, 2006, 77, 10E527.	0.6	2
184	Two Dimensional Density Fluctuation Measurements During the Non-Inductive Current Ramp-up Phase in the Compact Plasma Wall Interaction Experimental Device CPD. Plasma Science and Technology, 2009, 11, 397-401.	0.7	2
185	Research and Development of Compact Neutron Sources based on Inertial Electrostatic Confinement Fusion. , 2009, , .		2
186	Simulation Study of ECCD in Helical Plasmas. Plasma and Fusion Research, 2011, 6, 2403139-2403139.	0.3	2
187	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.	0.6	2
188	Long-pulse Plasma Discharges by Upgraded ECH System in the LHD. EPJ Web of Conferences, 2015, 87, 02020.	0.1	2
189	Direct measurement of refracted trajectory of transmitting electron cyclotron beam through plasma on the Large Helical Device. EPJ Web of Conferences, 2015, 87, 02019.	0.1	2
190	Faraday-cup-type lost fast ion detector on Heliotron J. Review of Scientific Instruments, 2016, 87, 11D818.	0.6	2
191	Near-infrared Zeeman spectroscopy for the spatially resolved measurement of helium emission spectra in Heliotron J. Plasma Physics and Controlled Fusion, 2019, 61, 025001.	0.9	2
192	Development of a multi-channel 320GHz interferometer for high density plasma measurement in Heliotron J. Review of Scientific Instruments, 2021, 92, 053519.	0.6	2
193	First Application of an InfraRed Imaging Video Bolometer to Heliotron J Plasma. Plasma and Fusion Research, 2021, 16, 1202079-1202079.	0.3	2
194	Role of pre-ionization in NBI plasma start-up of Heliotron J using non-resonant microwave heating. Nuclear Fusion, 2021, 61, 116009.	1.6	2
195	On-Axis Current Drive Experiment Using a Quasi-Optical Electron Cyclotron Heating/Current Drive System on the WT-3 Tokamak.. Journal of Plasma and Fusion Research, 1999, 75, 732-740.	0.4	2
196	Measurement of Single Pass Electron Cyclotron (EC) Absorption Using Transmitted Waves in Heliotron J. Plasma and Fusion Research, 2007, 2, 039-039.	0.3	2
197	Measurement of Peripheral Plasma Turbulence Using a Fast Camera in Heliotron J. Plasma and Fusion Research, 2008, 3, S1023-S1023.	0.3	2
198	Dependence of EC-Driven Current on the EC-Wave Beam Direction in LHD. Plasma and Fusion Research, 2011, 6, 2402073-2402073.	0.3	2

#	ARTICLE	IF	CITATIONS
199	Measurement of Radial Electric Field Using Doppler Reflectometer in High-Density Plasma of Heliotron J. Plasma and Fusion Research, 2020, 15, 2402064-2402064.	0.3	2
200	Heat Deposition on the Partial Limiter. Japanese Journal of Applied Physics, 1990, 29, 1829-1830.	0.8	1
201	Study of the Fast Ion Slowing-Down Process and ECRH Effects in Heliotron E. Journal of the Physical Society of Japan, 1997, 66, 2033-2043.	0.7	1
202	Potential profile measurements by laser-induced fluorescence method in a helium discharge plasma. , 0, , .		1
203	Performance characteristics of an inertial-electrostatic confinement fusion device with magnetron discharge. , 0, , .		1
204	Progress in Physics and Technology Developments for the Modification of JT-60. Plasma Science and Technology, 2004, 6, 2141-2150.	0.7	1
205	Polarizer Development for Electron Cyclotron Resonance Heating Systems in a HL-2A Tokamak. Plasma and Fusion Research, 2008, 3, 020-020.	0.3	1
206	Multichannel Langmuir probe for turbulence study in Heliotron J. Review of Scientific Instruments, 2010, 81, 10E137.	0.6	1
207	Recent Progress in Plasma Control Studies on the Improvement of Plasma Performance in Heliotron J. Plasma Science and Technology, 2011, 13, 21-25.	0.7	1
208	Experimental Study of Plasma Breakdown by Toroidally Injected Electron Cyclotron Waves in Heliotron J. Plasma and Fusion Research, 2012, 7, 1202153-1202153.	0.3	1
209	Improvement of trapped field in DyBaCuO bulk by proton irradiation. Physica C: Superconductivity and Its Applications, 2013, 484, 117-119.	0.6	1
210	Electron Bernstein wave heating and emission measurement through the very narrow O-X-B mode conversion window in the LHD. , 2014, , .		1
211	Observation of Intermittent Transition by Electrode Biasing in Heliotron J. Plasma and Fusion Research, 2015, 10, 3402061-3402061.	0.3	1
212	Experimental characterization of plasma start-up using ECRH in preparation of W7-X operation. EPJ Web of Conferences, 2015, 87, 02005.	0.1	1
213	Development of Electron Bernstein Emission Diagnostic for Heliotron J. Plasma and Fusion Research, 2016, 11, 2402095-2402095.	0.3	1
214	Properties of quarter-wavelength coaxial cavity for triode-type thermionic RF gun. Japanese Journal of Applied Physics, 2017, 56, 096701.	0.8	1
215	Observation of a beam-driven low-frequency mode in Heliotron J. Nuclear Fusion, 2019, 59, 056001.	1.6	1
216	Estimation of three-dimensional structure on peripheral fluctuation using fast camera images and magnetic field calculation in Heliotron J. Nuclear Materials and Energy, 2019, 20, 100678.	0.6	1

#	ARTICLE	IF	CITATIONS
217	Measurement of stray millimeter-wave radiation from a 70-GHz ECH/ECCD system in Heliotron J. Fusion Engineering and Design, 2019, 144, 40-45.	1.0	1
218	ECH Experiment in Heliotron J. Journal of Plasma and Fusion Research, 2002, 78, 1231-1238.	0.4	1
219	ECCD Experiments in Heliotron J: Recent Results Regarding the Dependence on Magnetic Configuration and Wave Polarization. Plasma and Fusion Research, 2007, 2, 030-030.	0.3	1
220	Change of Edge Plasma Distribution during a Discharge in Heliotron J. Plasma and Fusion Research, 2007, 2, S1080-S1080.	0.3	1
221	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.	0.3	1
222	Electron Bernstein Wave Heating in Heliotron Systems. , 2003, , .		1
223	Study of Edge Plasma Characteristics at H-mode Transition in Heliotron J. Plasma and Fusion Research, 2007, 2, S1059-S1059.	0.3	1
224	Measurement of Electron Temperature Profile and Fluctuation with ECE Radiometer System in Heliotron J. Plasma and Fusion Research, 2020, 15, 2402038-2402038.	0.3	1
225	New tomographic reconstruction technique based on Laplacian eigenfunction. Plasma Science and Technology, 2020, 22, 102002.	0.7	1
226	Measurement of Radial Correlation Lengths of Electron Density Fluctuations in Heliotron J Using O-Mode Reflectometry. Plasma and Fusion Research, 2020, 15, 1202054-1202054.	0.3	1
227	Development of dual X-mode Doppler reflectometry system in Heliotron J. Journal of Instrumentation, 2022, 17, C05023.	0.5	1
228	Magnetic Field Structure near the Plasma Boundary in Helical Systems and Divertor Tokamaks. Japanese Journal of Applied Physics, 1990, 29, 1336-1344.	0.8	0
229	Decay Process of a Magnetic Island by External Magnetic Perturbation. Journal of the Physical Society of Japan, 1991, 60, 2966-2976.	0.7	0
230	Impurity behaviour in Heliotron E plasmas. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 271-274.	0.8	0
231	Experimental Investigation of the Fast Ion Orbit Shift and Loss Cone in Heliotron E. Journal of the Physical Society of Japan, 1997, 66, 2702-2714.	0.7	0
232	Magnetic equilibrium diagnostics in a finite $\hat{I}^2$ toroidal helical plasma in Heliotron E. Fusion Engineering and Design, 1997, 34-35, 701-705.	1.0	0
233	Spectroscopic study of ECH and neutral beam injection heating of the Heliotron E plasma. Fusion Engineering and Design, 1997, 34-35, 241-245.	1.0	0
234	Oblique injection system for ECH and ECCD in Heliotron E. Fusion Engineering and Design, 1999, 47, 99-106.	1.0	0

#	ARTICLE	IF	CITATIONS
235	Collective microwave scattering diagnostic on the H-1 heliac. Review of Scientific Instruments, 2001, 72, 352-354.	0.6	0
236	Research Activities for the Plasma Confinement of Helical Configurations (Large Helical Device,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.6	0
237	Simulations of beamâ€‘beam interaction in an energy recovery linac. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 134-138.	0.7	0
238	Spectroscopic Study of Impurity Behavior in Heliotron-J Plasmas. Fusion Science and Technology, 2004, 46, 135-141.	0.6	0
239	Assessment of Flow Drive by Use of Ion Bernstein Wave on Heliotron J and EAST Devices. Plasma Science and Technology, 2006, 8, 125-128.	0.7	0
240	Control of Current Profile and Instability by Radiofrequency Wave Injection in JT-60U and Its Applicability in JT-60SA. AIP Conference Proceedings, 2007, , .	0.3	0
241	ECH experiments aiming at further advanced operations in LHD. AIP Conference Proceedings, 2007, , .	0.3	0
242	Impact of bumpiness control on edge plasma in a helical-axis heliotron device. Journal of Nuclear Materials, 2007, 363-365, 600-604.	1.3	0
243	Configuration Control Studies in Heliotron J. AIP Conference Proceedings, 2008, , .	0.3	0
244	Recycling studies based on two-dimensional visible light measurements and Monte-Carlo simulation in mirror and helical systems. Journal of Nuclear Materials, 2009, 390-391, 511-515.	1.3	0
245	Beam test of the coaxial cavity for the thermionic triode type RF gun. , 2014, , .		0
246	Development of steady-state operation using ICH in the LHD. , 2014, , .		0
247	Summary of ECRH/ECCD Presentations at EC18. EPJ Web of Conferences, 2015, 87, 02001.	0.1	0
248	Response of a core coherent density oscillation on electron cyclotron resonance heating in Heliotron J plasma. Physics of Plasmas, 2018, 25, 012513.	0.7	0
249	Development of a high-speed full digital processing phase detector for interferometry. Review of Scientific Instruments, 2018, 89, 10K108.	0.6	0
250	Development of a correlation ECE radiometer for electron temperature fluctuation measurements in Heliotron J. EPJ Web of Conferences, 2019, 203, 03013.	0.1	0
251	Current status and plan of development of Nd:YAG laser Thomson scattering system in Heliotron J. Journal of Instrumentation, 2020, 15, C02011-C02011.	0.5	0
252	Simulations of beamâ€‘beam interaction in an energy recovery linac. , 2004, , 134-138.		0

#	ARTICLE	IF	CITATIONS
253	Control of Growth of Neoclassical Tearing Mode by Central Co-ECCD in JT-60U. Plasma and Fusion Research, 2006, 1, 030-030.	0.3	0
254	ECCD EXPERIMENTS IN STELLARATOR/HELIOTRON. , 2009, , .		0
255	RECENT ECCD EXPERIMENTS IN THE TJ-II STELLARATOR. , 2009, , .		0
256	Numerical Analysis of ICRF Minority Heating in Helitoron J. Plasma and Fusion Research, 2011, 6, 2402063-2402063.	0.3	0
257	STUDY OF 70GHZ SECOND HARMONIC X-MODE ECCD IN HELIOTRON J. , 2011, , .		0
258	Measurement of Spatial Distributions of Fusion Reactions in an Inertial Electrostatic Confinement Fusion Device Driven by a Ring-Shaped Magnetron Ion Source. Green Energy and Technology, 2012, , 255-260.	0.4	0
259	Simulation of Electron Trajectory in Bulk HTSC Staggered Array Undulator. Green Energy and Technology, 2012, , 193-198.	0.4	0
260	Heliotron J Experimental Program. Journal of Plasma and Fusion Research, 1999, 75, 222-229.	0.4	0