Masaki Osakabe

List of Publications by Year
in descending order

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464	9,034	57631	98622
papers	citations	44 h-index	67 g-index

465	465	465	2072
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of the Large Helical Device project. Nuclear Fusion, 1999, 39, 1245-1256.	1.6	270
2	Initial physics achievements of large helical device experiments. Physics of Plasmas, 1999, 6, 1843-1850.	0.7	176
3	Electron Thermal Transport Barrier and Density Fluctuation Reduction in a Toroidal Helical Plasma. Physical Review Letters, 1999, 82, 2669-2672.	2.9	168
4	Fusion power production from TFTR plasmas fueled with deuterium and tritium. Physical Review Letters, 1994, 72, 3526-3529.	2.9	130
5	The divertor plasma characteristics in the Large Helical Device. Nuclear Fusion, 2002, 42, 750-758.	1.6	123
6	Recent advances in the LHD experiment. Nuclear Fusion, 2003, 43, 1674-1683.	1.6	119
7	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	1.6	116
8	Configuration flexibility and extended regimes in Large Helical Device. Plasma Physics and Controlled Fusion, 2001, 43, A55-A71.	0.9	106
9	High-power and long-pulse injection with negative-ion-based neutral beam injectors in the Large Helical Device. Nuclear Fusion, 2006, 46, S199-S210.	1.6	104
10	Observation of an impurity hole in a plasma with an ion internal transport barrier in the Large Helical Device. Physics of Plasmas, 2009, 16, .	0.7	91
11	Confinement and heating of a deuterium-tritium plasma. Physical Review Letters, 1994, 72, 3530-3533.	2.9	90
12	Review of deuteriumâ€“tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	0.7	89
13	Charge-Exchange Spectroscopy with Pitch-Controlled Double-Slit Fiber Bundle on LHD. Fusion Science and Technology, 2010, 58, 375-382.	0.6	83
14	Performance of Wendelstein 7-X stellarator plasmas during the first divertor operation phase. Physics of Plasmas, 2019, 26, .	0.7	83
15	Energetic particle instabilities in fusion plasmas. Nuclear Fusion, 2013, 53, 104022.	1.6	79
16	Energetic ion driven MHD instabilities observed in the heliotron/torsatron devices Compact Helical System and Large Helical Device. Nuclear Fusion, 2000, 40, 1349-1362.	1.6	76
17	Experimental observations of enhanced radial transport of energetic particles with AlfvÃ©n eigenmode on the LHD. Nuclear Fusion, 2006, 46, S911-S917.	1.6	76
18	Formation of electron internal transport barriers by highly localized electron cyclotron resonance heating in the large helical device. Plasma Physics and Controlled Fusion, 2003, 45, 1183-1192.	0.9	70

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19	Observation of the â€œSelf-Healingâ€•of an Error Field Island in the Large Helical Device. Physical Review Letters, 2001, 87, 135002.	2.9	67
20	Experimental study of the bifurcation nature of the electrostatic potential of a toroidal helical plasma. Physics of Plasmas, 2000, 7, 4152.	0.7	66
21	High Performance of Neutral Beam Injectors for Extension of LHD Operational Regime. Fusion Science and Technology, 2010, 58, 482-488.	0.6	66
22	Discovery of Electric Pulsation in a Toroidal Helical Plasma. Physical Review Letters, 1998, 81, 2256-2259.	2.9	62
23	Impact of pellet injection on extension of the operational region in LHD. Nuclear Fusion, 2001, 41, 381-386.	1.6	62
24	Edge Thermal Transport Barrier In LHD Discharges. Physical Review Letters, 2000, 84, 103-106.	2.9	60
25	Neutron Diagnostics in the Large Helical Device. IEEE Transactions on Plasma Science, 2018, 46, 2050-2058.	0.6	60
26	Formation of electron internal transport barrier and achievement of high ion temperature in Large Helical Device. Physics of Plasmas, 2003, 10, 1788-1795.	0.7	59
27	Reduction of Ion Thermal Diffusivity Associated with the Transition of the Radial Electric Field in Neutral-Beam-Heated Plasmas in the Large Helical Device. Physical Review Letters, 2001, 86, 5297-5300.	2.9	58
28	Radial electric field and transport near the rational surface and the magnetic island in LHD. Nuclear Fusion, 2004, 44, 290-295.	1.6	58
29	Energy Confinement Time and Heat Transport in Initial Neutral Beam Heated Plasmas on the Large Helical Device. Physical Review Letters, 2000, 84, 1216-1219.	2.9	57
30	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. Nuclear Fusion, 2001, 41, 901-908.	1.6	56
31	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	1.6	54
32	Overview of LHD experiments. Nuclear Fusion, 2001, 41, 1355-1367.	1.6	53
33	Escaping fast ion diagnostics in compact helical system heliotron/torsatron. Review of Scientific Instruments, 1999, 70, 827-830.	0.6	51
34	Bolometer diagnostics for one- and two-dimensional measurements of radiated power on the Large Helical Device. Plasma Physics and Controlled Fusion, 2003, 45, 1167-1182.	0.9	51
35	Engineering prospects of negative-ion-based neutral beam injection system from high power operation for the large helical device. Nuclear Fusion, 2003, 43, 692-699.	1.6	51
36	Island Dynamics in the Large-Helical-Device Plasmas. Physical Review Letters, 2002, 88, 055005.	2.9	50

#	Article	IF	Citations
37	Measurement of anisotropic pressure using magnetic measurements in LHD. Nuclear Fusion, 2005, 45, L33-L36.	1.6	50
38	Local island divertor experiments on LHD. Journal of Nuclear Materials, 2005, 337-339, 154-160.	1.3	50
39	Measurement of Ion Cyclotron Emissions by Using High-Frequency Magnetic Probes in the LHD. Plasma Science and Technology, 2013, 15, 209-212.	0.7	50
40	Preparation and Commissioning for the LHD Deuterium Experiment. IEEE Transactions on Plasma Science, 2018, 46, 2324-2331.	0.6	48
41	A global simulation study of ICRF heating in the LHD. Nuclear Fusion, 2006, 46, S425-S432.	1.6	47
42	Characteristics of transport in electron internal transport barriers and in the vicinity of rational surfaces in the Large Helical Device. Physics of Plasmas, 2004, 11, 2551-2557.	0.7	46
43	Observation of an impurity hole in the Large Helical Device. Nuclear Fusion, 2009, 49, 062002.	1.6	46
44	Energetic-ion-driven global instabilities in stellarator/helical plasmas and comparison with tokamak plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 024008.	0.9	46
45	Fusion neutron production with deuterium neutral beam injection and enhancement of energetic-particle physics study in the large helical device. Nuclear Fusion, 2018, 58, 082004.	1.6	45
46	Negative hydrogen ion source development for large helical device neutral beam injector (invited). Review of Scientific Instruments, 2000, 71, 1225-1230.	0.6	44
47	Inward Turbulent Transport Produced by Positively Sheared Radial Electric Field in Stellarators. Physical Review Letters, 2000, 84, 6042-6045.	2.9	44
48	MHD characteristics in the high beta regime of the Large Helical Device. Nuclear Fusion, 2001, 41, 1177-1183.	1.6	44
49	Calibration and sensitivity of the infrared imaging video bolometer. Review of Scientific Instruments, 2003, 74, 2040-2043.	0.6	44
50	Experimental studies of energetic-ion-driven MHD instabilities in Large Helical Device plasmas. Nuclear Fusion, 2005, 45, 326-336.	1.6	44
51	Observation of Reversed-Shear AlfvÃ©n Eigenmodes Excited by Energetic Ions in a Helical Plasma. Physical Review Letters, 2010, 105, 145003.	2.9	44
52	Observation of Toroidal Flow Antiparallel to theã€ˆErÃ—BÎ¸ã€‰Drift Direction in the Hot Electron Mode Plasmas in the Compact Helical System. Physical Review Letters, 2001, 86, 3040-3043.	2.9	43
53	Spatial distribution of the charged particles and potentials during beam extraction in a negative-ion source. Review of Scientific Instruments, 2012, 83, 02B116.	0.6	43
54	Development and application of a ray-tracing code integrating with 3D equilibrium mapping in LHD ECH experiments. Nuclear Fusion, 2015, 55, 123019.	1.6	43

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55	Energetic ion confinement studies using comprehensive neutron diagnostics in the Large Helical Device. Nuclear Fusion, 2019, 59, 076017.	1.6	43
56	Experiments close to the beta-limit in W7-AS. Plasma Physics and Controlled Fusion, 2003, 45, A285-A308.	0.9	42
57	Observation of energetic-ion losses induced by various MHD instabilities in the Large Helical Device (LHD). Nuclear Fusion, 2010, 50, 084005.	1.6	42
58	Ion and electron heating in ICRF heating experiments on LHD. Nuclear Fusion, 2001, 41, 1021-1035.	1.6	41
59	Effect of Neoclassical Transport Optimization on Energetic Ion Confinement in LHD. Fusion Science and Technology, 2004, 46, 241-247.	0.6	41
60	Plasma startup by neutral beam injection in the Large Helical Device. Nuclear Fusion, 1999, 39, 1087-1091.	1.6	40
61	Ion Heating and High-Energy-Particle Production by Ion-Cyclotron Heating in the Large Helical Device. Physical Review Letters, 2000, 85, 4530-4533.	2.9	40
62	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	1.6	39
63	Heat and momentum transport of ion internal transport barrier plasmas on the Large Helical Device. Nuclear Fusion, 2011, 51, 083022.	1.6	39
64	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
65	Overview of confinement and MHD stability in the Large Helical Device. Nuclear Fusion, 2005, 45, S255-S265.	1.6	38
66	Steady-state operation and high energy particle production of MeV energy in the Large Helical Device. Nuclear Fusion, 2007, 47, 1250-1257.	1.6	38
67	Spontaneous toroidal rotation driven by the off-diagonal term of momentum and heat transport in the plasma with the ion internal transport barrier in LHD. Nuclear Fusion, 2010, 50, 064007.	1.6	38
68	Ion cyclotron range of frequency heating experiments on the large helical device and high energy ion behavior. Physics of Plasmas, 2001, 8, 2139-2147.	0.7	37
69	Integrated discharge scenario for high-temperature helical plasma in LHD. Nuclear Fusion, 2015, 55, 113020.	1.6	37
70	Resistive Interchange Modes Destabilized by Helically Trapped Energetic Ions in a Helical Plasma. Physical Review Letters, 2015, 114, 155003.	2.9	37
71	Energetic-Ion-Driven Toroidal AlfvÃ©n Eigenmodes Observed in a Heliotron/Torsatron Plasma. Physical Review Letters, 1999, 83, 312-315.	2.9	36
72	In situcalibration of neutral beam port-through power and estimation of neutral beam deposition on LHD. Review of Scientific Instruments, 2001, 72, 590-593.	0.6	36

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73	Observation of Helicity-Induced AlfvÃ©n Eigenmodes in Large-Helical-Device Plasmas Heated by Neutral-Beam Injection. Physical Review Letters, 2003, 91, 245001.	2.9	36
74	Density limit study focusing on the edge plasma parameters in LHD. Nuclear Fusion, 2008, 48, 015003.	1.6	36
75	Strong Destabilization of Stable Modes with a Half-Frequency Associated with Chirping Geodesic Acoustic Modes in the Large Helical Device. Physical Review Letters, 2016, 116, 015002.	2.9	36
76	Current Status of Large Helical Device and Its Prospect for Deuterium Experiment. Fusion Science and Technology, 0, , 1-12.	0.6	36
77	TFTR DT experiments. Plasma Physics and Controlled Fusion, 1997, 39, B103-B114.	0.9	35
78	Development and energy calibration of Si-FNA for LHD fast ion measurement. Review of Scientific Instruments, 2001, 72, 788-791.	0.6	35
79	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	1.6	35
80	Turbulence Response in the High Ti Discharge of the LHD. Plasma and Fusion Research, 2010, 5, S2053-S2053.	0.3	35
81	Plasma characteristics of long-pulse discharges heated by neutral beam injection in the Large Helical Device. Plasma Physics and Controlled Fusion, 2000, 42, 147-159.	0.9	34
82	Charge exchange neutral particle analysis with natural diamond detectors on LHD heliotron. Review of Scientific Instruments, 2001, 72, 611-614.	0.6	34
83	Plasma performance and impurity behaviour in long pulse discharges on LHD. Nuclear Fusion, 2003, 43, 219-227.	1.6	34
84	Radial Transport Characteristics of Fast Ions Due to Energetic-Particle Modes inside the Last Closed-Flux Surface in the Compact Helical System. Physical Review Letters, 2008, 100, 065005.	2.9	33
85	Negative ion production and beam extraction processes in a large ion source (invited). Review of Scientific Instruments, 2016, 87, 02B936.	0.6	33
86	Energetic ion driven AlfvÃ©n eigenmodes in Large Helical Device plasmas with three-dimensional magnetic structure and their impact on energetic ion transport. Plasma Physics and Controlled Fusion, 2004, 46, S1-S13.	0.9	31
87	Causal Relationship between Zonal Flow and Turbulence in a Toroidal Plasma. Journal of the Physical Society of Japan, 2007, 76, 033501.	0.7	31
88	Identification of the energetic-particle driven GAM in the LHD. Nuclear Fusion, 2015, 55, 083024.	1.6	31
89	Monte Carlo simulation of the neutron measurement for the Large Helical Device deuterium experiments. Fusion Engineering and Design, 2017, 123, 1020-1024.	1.0	31
90	High power beam injection using an improved negative ion source for the large helical device. Review of Scientific Instruments, 2004, 75, 1847-1850.	0.6	30

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91	Extension and characteristics of an ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2005, 47, A81-A90.	0.9	30
92	Extension of high Te regime with upgraded electron cyclotron resonance heating system in the Large Helical Device. Physics of Plasmas, 2014, 21, .	0.7	30
93	Radiation hardness of a single crystal CVD diamond detector for MeV energy protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 147-150.	0.7	30
94	Experiments on NBI plasmas in LHD. Plasma Physics and Controlled Fusion, 1999, 41, B157-B166.	0.9	29
95	Superdense core mode in the Large Helical Device with an internal diffusion barrier. Physics of Plasmas, 2007, 14, 056113.	0.7	29
96	Plasma confinement studies in LHD. Nuclear Fusion, 1999, 39, 1659-1666.	1.6	28
97	Multifaceted asymmetric radiation from the edge-like asymmetric radiative collapse of density limited plasmas in the Large Helical Device. Physics of Plasmas, 2001, 8, 3861-3864.	0.7	28
98	Fast ion charge exchange spectroscopy measurement using a radially injected neutral beam on the large helical device. Review of Scientific Instruments, 2008, 79, 10E519.	0.6	28
99	Identification of the extraction structure of H^{â^'}ions by H_{Î±}imaging spectroscopy. New Journal of Physics, 2013, 15, 103026.	1.2	28
100	Simulation study of high-frequency energetic particle driven geodesic acoustic mode. Physics of Plasmas, 2015, 22, .	0.7	28
101	Comprehensive magnetohydrodynamic hybrid simulations of fast ion driven instabilities in a Large Helical Device experiment. Physics of Plasmas, 2017, 24, .	0.7	28
102	Extended capability of the integrated transport analysis suite, TASK3D-a, for LHD experiment. Nuclear Fusion, 2017, 57, 126016.	1.6	28
103	Isotope Effect on Energy Confinement Time and Thermal Transport in Neutral-Beam-Heated Stellarator-Heliotron Plasmas. Physical Review Letters, 2019, 123, 185001.	2.9	28
104	Confinement improvement in high-ion temperature plasmas heated with high-energy negative-ion-based neutral beam injection in the Large Helical Device. Nuclear Fusion, 2007, 47, 1078-1085.	1.6	27
105	Beamlet characteristics in the accelerator with multislot grounded grid. Review of Scientific Instruments, 2010, 81, 02B117.	0.6	27
106	Transition from L mode to high ion temperature mode in CHS heliotron/torsatron plasmas. Nuclear Fusion, 1999, 39, 1649-1658.	1.6	26
107	Extension of the operational regime in high-temperature plasmas and the dynamic-transport characteristics in the LHD. Nuclear Fusion, 2013, 53, 073034.	1.6	26
108	The performance of ICRF heated plasmas in LHD. Nuclear Fusion, 2001, 41, 325-332.	1.6	25

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109	Ion cyclotron range of frequencies heating and high-energy particle production in the Large Helical Device. Nuclear Fusion, 2003, 43, 738-743.	1.6	25
110	Edge plasma control by local island divertor in LHD. Nuclear Fusion, 2005, 45, 837-842.	1.6	25
111	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
112	Compensation of beam deflection due to the magnetic field using beam steering by aperture displacement technique in the multibeamlet negative ion source. Review of Scientific Instruments, 2001, 72, 3237-3244.	0.6	24
113	Impact of carbon impurities on the confinement of high-ion-temperature discharges in the Large Helical Device. Plasma Physics and Controlled Fusion, 2014, 56, 095011.	0.9	24
114	Nonlinear Excitation of Subcritical Instabilities in a Toroidal Plasma. Physical Review Letters, 2016, 116, 015003.	2.9	24
115	Suppression of accelerated electrons in a high-current large negative ion source. Review of Scientific Instruments, 1997, 68, 2003-2011.	0.6	23
116	Overview of the Large Helical Device. Plasma Physics and Controlled Fusion, 2000, 42, 1165-1177.	0.9	23
117	Infrared imaging video bolometer for the large helical device. Review of Scientific Instruments, 2001, 72, 923-926.	0.6	23
118	Control of negative ion beam uniformity by using multipower supplies for arc discharge. Review of Scientific Instruments, 2004, 75, 1744-1746.	0.6	23
119	Growth and evaluation of self-standing CVD diamond single crystals on off-axis (001) surface of HP/HT type IIa substrates. Diamond and Related Materials, 2012, 26, 45-49.	1.8	23
120	Exploring deuterium beam operation and the behavior of the co-extracted electron current in a negative-ion-based neutral beam injector. Nuclear Fusion, 2019, 59, 076009.	1.6	23
121	Energetic particle transport and loss induced by helically-trapped energetic-ion-driven resistive interchange modes in the Large Helical Device. Nuclear Fusion, 2020, 60, 112011.	1.6	23
122	Recent D-T results on TFTR. Plasma Physics and Controlled Fusion, 1995, 37, A69-A85.	0.9	22
123	Experimental test of the radial force balance equation in the compact helical system. Physics of Plasmas, 2001, 8, 1-4.	0.7	22
124	Observation of ablation and acceleration of impurity pellets in the presence of energetic ions in the CHS heliotron/torsatron. Nuclear Fusion, 2002, 42, 876-880.	1.6	22
125	Development of the plasma operational regime in the large helical device by the various wall conditioning methods. Journal of Nuclear Materials, 2005, 337-339, 431-435.	1.3	22
126	High-ion temperature experiments with negative-ion-based neutral beam injection heating in Large Helical Device. Nuclear Fusion, 2005, 45, 565-573.	1.6	22

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127	Cavity Ring-Down System for Density Measurement of Negative Hydrogen Ion on Negative Ion Source. AIP Conference Proceedings, 2011, , .	0.3	22
128	Magnetic configuration effects on TAE-induced losses and a comparison with the orbit-following model in the Large Helical Device. Nuclear Fusion, 2012, 52, 094013.	1.6	22
129	A study on the TAE-induced fast-ion loss process in LHD. Nuclear Fusion, 2013, 53, 053012.	1.6	22
130	Cavity Ringdown Technique for negative-hydrogen-ion measurement in ion source for neutral beam injector. Journal of Instrumentation, 2016, 11, C03018-C03018.	0.5	22
131	Upgrades and application of FIT3D NBIâ€“plasma interaction code in view of LHD deuterium campaigns. Plasma Physics and Controlled Fusion, 2016, 58, 125008.	0.9	22
132	Particle balance in NBI heated long pulse discharges on LHD. Journal of Nuclear Materials, 2001, 290-293, 1040-1044.	1.3	21
133	Properties of thermal decay and radiative collapse of NBI heated plasmas on LHD. Nuclear Fusion, 2002, 42, 601-613.	1.6	21
134	Long-pulse plasma discharge on the Large Helical Device. Nuclear Fusion, 2006, 46, S13-S21.	1.6	21
135	Neutral beam injection with an improved accelerator for LHD. Review of Scientific Instruments, 2008, 79, 02C107.	0.6	21
136	Dynamics of ion internal transport barrier in LHD heliotron and JT-60U tokamak plasmas. Nuclear Fusion, 2009, 49, 095024.	1.6	21
137	Fast-Particle Diagnostics on LHD. Fusion Science and Technology, 2010, 58, 426-435.	0.6	21
138	Suppression of Trapped Energetic Ions Driven Resistive Interchange Modes with Electron Cyclotron Heating in a Helical Plasma. Physical Review Letters, 2017, 118, 125001.	2.9	21
139	Thirty-Minute Plasma Sustainment by ICRF, EC and NBI Heating in the Large Helical Device. Journal of Plasma and Fusion Research, 2005, 81, 229-230.	0.4	21
140	Extension of the high-ion-temperature regime in the Large Helical Device. Physics of Plasmas, 2008, 15, 056111.	0.7	20
141	Observations of spontaneous toroidal flow in the LHD. Nuclear Fusion, 2009, 49, 075036.	1.6	20
142	Research and Development Activities on Negative Ion Sources. Fusion Science and Technology, 2010, 58, 489-496.	0.6	20
143	Analysis of PWI footprint traces and material damage on the first walls of the spherical tokamak QUEST. Fusion Engineering and Design, 2012, 87, 77-86.	1.0	20
144	Current Status of NIFS-SWJTU Joint Project for Quasi-Axisymmetric Stellarator CFQS. Plasma and Fusion Research, 2019, 14, 3402074-3402074.	0.3	20

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145	Neutral Gas Compression in the Helical Divertor with a Baffle Structure in the LHD Heliotron. Plasma and Fusion Research, 2011, 6, 1202007-1202007.	0.3	20
146	Overview of long pulse operation in the Large Helical Device. Nuclear Fusion, 2000, 40, 1157-1166.	1.6	19
147	Overview of CHS experiments4. Plasma Physics and Controlled Fusion, 2000, 42, 1145-1149.	0.9	19
148	H-mode-like transition and ELM-like bursts in LHD with thick ergodic layer. Nuclear Fusion, 2007, 47, 1033-1044.	1.6	19
149	Fast-Ion Confinement Studies on LHD. Fusion Science and Technology, 2010, 58, 131-140.	0.6	19
150	Experimental study of radial electric field and electrostatic potential fluctuation in the Large Helical Device. Plasma Physics and Controlled Fusion, 2010, 52, 124025.	0.9	19
151	Reversal of Intrinsic Torque Associated with the Formation of an Internal Transport Barrier. Physical Review Letters, 2013, 111, .	2.9	19
152	Development of intense hydrogen-negative-ion source for neutral beam injectors at NIFS. AIP Conference Proceedings, 2013, , .	0.3	19
153	Charged particle flows in the beam extraction region of a negative ion source for NBI. Review of Scientific Instruments, 2016, 87, 02B103.	0.6	19
154	Calibration experiment and the neutronics analyses on the LHD neutron flux monitors for the deuterium plasma experiment. Fusion Engineering and Design, 2018, 136, 210-214.	1.0	19
155	Transition of Edge Particle Transport in CHS. Journal of Plasma and Fusion Research, 2003, 79, 977-979.	0.4	19
156	Deuterium and tritium experiments on TFTR. Plasma Physics and Controlled Fusion, 1994, 36, B3-B15.	0.9	18
157	Plasma-surface interactions in TFTR DT experiments. Journal of Nuclear Materials, 1995, 220-222, 62-72.	1.3	18
158	The first ICRF heating experiment in the large helical device. Plasma Physics and Controlled Fusion, 2000, 42, 265-274.	0.9	18
159	Observation of MHD induced fast ion losses on the CHS heliotron/torsatron. Nuclear Fusion, 2000, 40, 1575-1586.	1.6	18
160	Experimental investigation of the ripple induced losses of perpendicularly injected beam ions in the low aspect ratio helical system CHS. Nuclear Fusion, 2001, 41, 1273-1281.	1.6	18
161	Experimental study on ion temperature behaviours in ECH, ICRF and NBI H2, He and Ne discharges of the Large Helical Device. Nuclear Fusion, 2003, 43, 899-909.	1.6	18
162	A diamond 14 MeV neutron energy spectrometer with high energy resolution. Review of Scientific Instruments, 2016, 87, 023503.	0.6	18

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163	Resistive interchange mode destabilized by helically trapped energetic ions and its effects on energetic ions and bulk plasma in a helical plasma. Nuclear Fusion, 2016, 56, 016002.	1.6	18
164	Progress on Integrated Neutron Diagnostics for Deuterium Plasma Experiments and Energetic Particle Confinement Studies in the Large Helical Device During the Campaigns from FY2017 to FY2019. Plasma and Fusion Research, 2021, 16, 1102023-1102023.	0.3	18
165	Global MHD modes excited by energetic ions in heliotron/torsatron plasmas. Nuclear Fusion, 1999, 39, 1929-1933.	1.6	17
166	Analysis of plasma initiation by neutral beams in the Large Helical Device. Nuclear Fusion, 2002, 42, 441-447.	1.6	17
167	Study of acceleration and confinement of high-energy protons during ICRF and NBI heating in LHD using a natural diamond detector. Nuclear Fusion, 2002, 42, 759-767.	1.6	17
168	Temperature dependence of the thermal diffusivity in high-collisionality regimes in the large helical device. Plasma Physics and Controlled Fusion, 2005, 47, 801-813.	0.9	17
169	Overview of Progress in LHD Experiments. Fusion Science and Technology, 2006, 50, 136-145.	0.6	17
170	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
171	The effect of divertor tile material on radiation profiles in LHD. Journal of Nuclear Materials, 2001, 290-293, 930-934.	1.3	16
172	Role of core radiation during slow oscillations in LHD. Nuclear Fusion, 2001, 41, 519-525.	1.6	16
173	Experimental studies towards long pulse steady state operation in LHD. Nuclear Fusion, 2001, 41, 779-790.	1.6	16
174	Improved plasma performance on Large Helical Device. Physics of Plasmas, 2001, 8, 2002-2008.	0.7	16
175	A study of high-energy ions produced by ICRF heating in LHD. Plasma Physics and Controlled Fusion, 2002, 44, 103-119.	0.9	16
176	Impurity behaviour in LHD long pulse discharges. Plasma Physics and Controlled Fusion, 2002, 44, 2121-2134.	0.9	16
177	Sawtooth Oscillation in Current-Carrying Plasma in the Large Helical Device. Physical Review Letters, 2003, 90, 205001.	2.9	16
178	Configuration Effect on Energy Confinement and Local Transport in LHD and Contribution to the International Stellarator Database. Fusion Science and Technology, 2004, 46, 82-90.	0.6	16
179	Role of recycling flux in gas fuelling in the Large Helical Device. Nuclear Fusion, 2004, 44, 154-161.	1.6	16
180	Self-sustained detachment in the Large Helical Device. Nuclear Fusion, 2006, 46, 532-540.	1.6	16

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181	10 years of engineering and physics achievements by the Large Helical Device project. Fusion Engineering and Design, 2009, 84, 186-193.	1.0	16
182	Global linear gyrokinetic simulation of energetic particle-driven instabilities in the LHD stellarator. Nuclear Fusion, 2017, 57, 086018.	1.6	16
183	Observation of enhanced radial transport of energetic ion due to energetic particle mode destabilized by helically-trapped energetic ion in the Large Helical Device. Nuclear Fusion, 2018, 58, 044001.	1.6	16
184	Isotope effects on energy, particle transport and turbulence in electron cyclotron resonant heating plasma of the Large Helical Device. Nuclear Fusion, 2019, 59, 126040.	1.6	16
185	Effects of filament positions on the arc discharge characteristics of a negative hydrogen ion source for neutral beam injector. Review of Scientific Instruments, 1999, 70, 2338-2344.	0.6	15
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