

Masaki Osakabe

List of Publications by Year in descending order

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464
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#	ARTICLE	IF	CITATIONS
1	Challenges toward improvement of deuterium-injection power in the Large Helical Device negative-ion-based NBIs. Nuclear Fusion, 2022, 62, 056016.	1.6	8
2	Recent developments in engineering design for the quasi-axisymmetric stellarator CFQS. Nuclear Fusion, 2022, 62, 016010.	1.6	6
3	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
4	Development of Rapid Simulation Code for NBI Heating Analysis in LHD. Journal of Fusion Energy, 2022, 41, 1.	0.5	1
5	Observation of significant Doppler shift in deuterium-deuterium neutron energy caused by neutral beam injection in the large helical device. AAPS Bulletin, 2022, 32, 1.	2.7	7
6	Recent Progress of Neutron Spectrometer Development for LHD Deuterium Plasmas. Plasma and Fusion Research, 2022, 17, 2402008-2402008.	0.3	4
7	Abundance ratio of multiple velocity distribution components in a single negative ion beamlet produced by a cesium-seeded negative ion source. AIP Advances, 2022, 12, .	0.6	0
8	Recent development of neutron and energetic-particle diagnostics for LHD deuterium discharges. Journal of Instrumentation, 2022, 17, C03036.	0.5	8
9	Difference of co-extracted electron current and beam acceleration in a negative ion source with hydrogen-isotope ions. Journal of Physics: Conference Series, 2022, 2244, 012060.	0.3	0
10	Beam instability in the vicinity of beam extraction region of negative ion source. Journal of Physics: Conference Series, 2022, 2244, 012043.	0.3	0
11	Study of the charged particle flow near the plasma grid in negative ion source. Journal of Physics: Conference Series, 2022, 2244, 012059.	0.3	0
12	Comparison of ion source plasma responses to extraction grid bias between hydrogen and deuterium operations in NIFS-RNIS. Journal of Physics: Conference Series, 2022, 2244, 012046.	0.3	0
13	Studies of energetic particle transport induced by multiple Alfvén eigenmodes using neutron and escaping energetic particle diagnostics in Large Helical Device deuterium plasmas. Nuclear Fusion, 2022, 62, 112001.	1.6	5
14	Estimation of the Tritium Yields in Deuterium Fusion Plasmas Considering the Fast-Ion Velocity Distribution Function. Plasma and Fusion Research, 2022, 17, 2402023-2402023.	0.3	1
15	Validation of the distribution of stripping loss neutrals in the accelerator of the negative ion source. AIP Conference Proceedings, 2021, , .	0.3	0
16	Development of the directional Langmuir probe for the charged particle flow measurement. AIP Conference Proceedings, 2021, , .	0.3	1
17	Predictive analysis for triton burnup ratio in HL-2A and HL-2M plasmas. Plasma Physics and Controlled Fusion, 2021, 63, 045013.	0.9	2
18	Initial Results of Hydrogen and Deuterium Beam Ion Simultaneous Transport due to Toroidal Alfvén Eigenmode in the Large Helical Device. Plasma and Fusion Research, 2021, 16, 2402044-2402044.	0.3	0

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19	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
20	Characteristics of neutron emission profile from neutral beam heated plasmas of the Large Helical Device at various magnetic field strengths. Plasma Physics and Controlled Fusion, 2021, 63, 065010.	0.9	2
21	Fast deuteron diagnostics using visible light spectra of 3He produced by deuteron-deuteron reaction in deuterium plasmas. Review of Scientific Instruments, 2021, 92, 053524.	0.6	3
22	Design and optimization of an advanced time-of-flight neutron spectrometer for deuterium plasmas of the large helical device. Review of Scientific Instruments, 2021, 92, 053547.	0.6	6
23	Neutron and gamma-ray transport calculations in support of the design of the radiation shielding for the TOFED neutron spectrometer at LHD. Fusion Engineering and Design, 2021, 166, 112296.	1.0	6
24	Extending the total neutron emission rate of steady-state deuterium large helical plasma guided by a data-driven approach. Fusion Engineering and Design, 2021, 167, 112367.	1.0	0
25	Isotope effects on transport in LHD. Plasma Physics and Controlled Fusion, 2021, 63, 094001.	0.9	7
26	Effect of nuclear elastic scattering on the $\text{D}(d,n)^3\text{He}$ fusion reactivity induced by energetic protons observed in the large helical device. Nuclear Fusion, 2021, 61, 094001.	1.6	2
27	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
28	A study of beam ion and deuterium-deuterium fusion-born triton transports due to energetic particle-driven magnetohydrodynamic instability in the large helical device deuterium plasmas. Nuclear Fusion, 2021, 61, 096035.	1.6	8
29	Removal of tritium from vacuum vessel by RF heated plasmas in LHD. Physica Scripta, 2021, 96, 124007.	1.2	4
30	Development of a 56 GHz ECH system for deuterium plasma experiments of a low magnetic field in LHD. Fusion Engineering and Design, 2021, 173, 112862.	1.0	2
31	The Evaluation of a Simple Measurement Method using NaI(Tl) Scintillation Survey-Meter for Radiation Safety Management of Radioactivated Armor Tiles of LHD Vacuum Vessel. Radiation Safety Management, 2021, 20, 20-28.	0.4	2
32	Configuration characteristics of the Chinese First Quasi-axisymmetric Stellarator. Nuclear Fusion, 2021, 61, 016014.	1.6	13
33	Impact of Magnetic Field Configuration on Heat Transport in Stellarators and Heliotrons. Physical Review Letters, 2021, 127, 225001.	2.9	8
34	Neutron energy spectrum measurement using CLYC7-based compact neutron emission spectrometer in the Large Helical Device. Journal of Instrumentation, 2021, 16, C12025.	0.5	11
35	Initial Measurement of Doppler-Shifted DD Neutron Energy Spectrum Using CLYC7 Scintillator in LHD. Plasma and Fusion Research, 2021, 16, 1202108-1202108.	0.3	1
36	Eddy current analyses for vacuum vessel of CFQS quasi-axisymmetric stellarator. Fusion Engineering and Design, 2020, 161, 111869.	1.0	4

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37	Performance of the newly installed vertical neutron cameras for low neutron yield discharges in the Large Helical Device. Review of Scientific Instruments, 2020, 91, 083505.	0.6	11
38	Neutron-induced signal on the single crystal chemical vapor deposition diamond-based neutral particle analyzer. Review of Scientific Instruments, 2020, 91, 113304.	0.6	3
39	Studies of the fast ion confinement in the Large Helical Device by using neutron measurement and integrated codes. Journal of Plasma Physics, 2020, 86, .	0.7	13
40	Observation of neutron emission anisotropy by neutron activation measurement in beam-injected LHD deuterium plasmas. Nuclear Fusion, 2020, 60, 076017.	1.6	13
41	Deuterium experiment with large-scale negative ion source for large helical device. Japanese Journal of Applied Physics, 2020, 59, SHHC09.	0.8	3
42	Observation of a nuclear-elastic-scattering effect caused by energetic protons on deuteron slowing-down behaviour on the Large Helical Device. Nuclear Fusion, 2020, 60, 066007.	1.6	7
43	Observation of clump structure in transported particle orbit using an upgraded neutral particle analyzer during TAE burst in LHD. Nuclear Fusion, 2020, 60, 112002.	1.6	8
44	Extended investigations of isotope effects on ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2020, 62, 024006.	0.9	10
45	Characterisation of negative ion beam focusing based on phase space structure. New Journal of Physics, 2020, 22, 023017.	1.2	11
46	Enhancement of an E parallel B type neutral particle analyzer with high time resolution in the Large Helical Device. Journal of Instrumentation, 2020, 15, C02021-C02021.	0.5	7
47	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
48	Spatial distribution of negative ion density near the plasma grid. Review of Scientific Instruments, 2020, 91, 013512.	0.6	10
49	Response of beam focusing to plasma fluctuation in a filament-arc-type negative ion source. Japanese Journal of Applied Physics, 2020, 59, SHHA01.	0.8	7
50	Hybrid simulation of NBI fast-ion losses due to the Alfvén eigenmode bursts in the Large Helical Device and the comparison with the fast-ion loss detector measurements. Journal of Plasma Physics, 2020, 86, .	0.7	3
51	Study of correlation between plasma parameter and beam optics. Review of Scientific Instruments, 2020, 91, 023503.	0.6	4
52	Fast-ion D alpha diagnostic with 3D-supporting FIDASIM in the Large Helical Device. Nuclear Fusion, 2020, 60, 112014.	1.6	9
53	Initial Result of Neutron Emission Rate Analysis for Ion Cyclotron Range of Frequency Heated Deuterium Plasmas in LHD. Plasma and Fusion Research, 2020, 15, 1202088-1202088.	0.3	5
54	Regression Approach for Acquiring a Quantitative Guidance toward Updating the Deuterium-Deuterium Fusion Neutron Emission Rate in the Large Helical Device. Plasma and Fusion Research, 2020, 15, 1202087-1202087.	0.3	0

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55	Recent ECRH/ECCD experiments aiming for higher density and temperature operations in the LHD. EPJ Web of Conferences, 2019, 203, 02001.	0.1	8
56	Performance of Wendelstein 7-X stellarator plasmas during the first divertor operation phase. Physics of Plasmas, 2019, 26, .	0.7	83
57	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
58	Energetic ion confinement studies using comprehensive neutron diagnostics in the Large Helical Device. Nuclear Fusion, 2019, 59, 076017.	1.6	43
59	Current Status of NIFS-SWJTU Joint Project for Quasi-Axisymmetric Stellarator CFQS. Plasma and Fusion Research, 2019, 14, 3402074-3402074.	0.3	20
60	Transport characteristics of deuterium and hydrogen plasmas with ion internal transport barrier in the Large Helical Device. Nuclear Fusion, 2019, 59, 106002.	1.6	11
61	Development of NPA array using single crystal CVD diamond detectors. Journal of Instrumentation, 2019, 14, C08002-C08002.	0.5	10
62	Thermal neutron flux evaluation by a single crystal CVD diamond detector in LHD deuterium experiment. Journal of Instrumentation, 2019, 14, C09039-C09039.	0.5	4
63	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
64	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
65	Verification of Carbon Density Profile Measurements with Charge Exchange Spectroscopy Using Hydrogen and Deuterium Neutral Beams. Plasma and Fusion Research, 2019, 14, 1402079-1402079.	0.3	5
66	Comprehensive magnetohydrodynamic hybrid simulations of Alfvén eigenmode bursts and fast-ion losses in the Large Helical Device. Nuclear Fusion, 2019, 59, 096018.	1.6	11
67	The isotope effect on impurities and bulk ion particle transport in the Large Helical Device. Nuclear Fusion, 2019, 59, 056029.	1.6	13
68	Extension of high power deuterium operation of negative ion based neutral beam injector in the large helical device. Review of Scientific Instruments, 2019, 90, 113322.	0.6	12
69	Analysis of beam slowing-down process in large helical device based on Fokker-Planck operator including beam-beam Coulomb collision effect. Nuclear Fusion, 2019, 59, 016007.	1.6	10
70	Possibility study of the partial neutron calibration for neutron flux monitors in torus devices. Fusion Engineering and Design, 2019, 146, 50-54.	1.0	0
71	Monte Carlo calculation of the neutron and gamma-ray distributions inside the LHD experimental building and shielding design for diagnostics. Progress in Nuclear Science and Technology, 2019, 6, 48-51.	0.3	7
72	Analysis of Energetic Particle Confinement in LHD Using Neutron Measurement and Simulation Codes. Plasma and Fusion Research, 2019, 14, 3402075-3402075.	0.3	13

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73	Evaluation of Neutron Emission Rate with FIT3D-DD Code in Large Helical Device. Plasma and Fusion Research, 2019, 14, 3402126-3402126.	0.3	13
74	Evaluation of an Energetic Particle Profile Using a Tangential-FIDA Diagnostic in the Large Helical Device. Plasma and Fusion Research, 2019, 14, 3402129-3402129.	0.3	7
75	Role of Helium-Hydrogen ratio on energetic interchange mode behaviour and its effect on ion temperature and micro-turbulence in LHD. Nuclear Fusion, 2018, 58, 046013.	1.6	4
76	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
77	Effect of the helically-trapped energetic-ion-driven resistive interchange modes on energetic ion confinement in the Large Helical Device. Plasma Physics and Controlled Fusion, 2018, 60, 044005.	0.9	14
78	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
79	Integrated radiation monitoring and interlock system for the LHD deuterium experiments. Fusion Engineering and Design, 2018, 129, 259-262.	1.0	4
80	Caesiated H- source operation with helium. AIP Conference Proceedings, 2018, , .	0.3	1
81	Initial Results of Neutron Emission Profile Measurements in LHD Deuterium Plasmas. Plasma and Fusion Research, 2018, 13, 3402122-3402122.	0.3	3
82	Development of a dual beamlet monitor system for negative ion beam measurements. Review of Scientific Instruments, 2018, 89, 123303.	0.6	7
83	First measurements of thermal neutron distribution in the LHD torus hall generated by deuterium experiments. Fusion Engineering and Design, 2018, 137, 191-195.	1.0	12
84	First results of deuterium beam operation on neutral beam injectors in the large helical device. AIP Conference Proceedings, 2018, , .	0.3	12
85	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
86	Carbon impurities behavior and its impact on ion thermal confinement in high-ion-temperature deuterium discharges on the Large Helical Device. Plasma Physics and Controlled Fusion, 2018, 60, 074005.	0.9	12
87	Energy confinement of hydrogen and deuterium electron-root plasmas in the Large Helical Device. Nuclear Fusion, 2018, 58, 106025.	1.6	9
88	Time dependent neutron emission rate analysis for neutral-beam-heated deuterium plasmas in a helical system and tokamaks. Plasma Physics and Controlled Fusion, 2018, 60, 095010.	0.9	13
89	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
90	Preparation and Commissioning for the LHD Deuterium Experiment. IEEE Transactions on Plasma Science, 2018, 46, 2324-2331.	0.6	48

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91	Neutron Diagnostics in the Large Helical Device. IEEE Transactions on Plasma Science, 2018, 46, 2050-2058.	0.6	60
92	Demonstration of Beam Optics Optimization Using Plasma Grid Bias in a Negative Ion Source. Plasma and Fusion Research, 2018, 13, 1205110-1205110.	0.3	5
93	Fast Ion Confinement Study by Neutron Emission Rate Measurement after Short Pulse NB Injection in the Large Helical Device. Plasma and Fusion Research, 2018, 13, 3402024-3402024.	0.3	6
94	Neutron Flux Measurement Using a Fast-Neutron Scintillation Detector with High Temporal Resolution on the Large Helical Device. Plasma and Fusion Research, 2018, 13, 3402068-3402068.	0.3	12
95	Fusion Research and International Collaboration in the Asian Region. Plasma and Fusion Research, 2018, 13, 3502046-3502046.	0.3	3
96	A comprehensive study on impurity behavior in LHD long pulse discharges. Nuclear Materials and Energy, 2017, 12, 124-132.	0.6	4
97	Observation of subcritical geodesic acoustic mode excitation in the large helical device. Nuclear Fusion, 2017, 57, 072009.	1.6	2
98	Global linear gyrokinetic simulation of energetic particle-driven instabilities in the LHD stellarator. Nuclear Fusion, 2017, 57, 086018.	1.6	16
99	Strong suppression of impurity accumulation in steady-state hydrogen discharges with high power NBI heating on LHD. Nuclear Fusion, 2017, 57, 056003.	1.6	13
100	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
101	Response of H^+ ions to extraction field in a negative hydrogen ion source. Fusion Engineering and Design, 2017, 123, 481-484.	1.0	12
102	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
103	Extension of high-beta plasma operation to low-collisionality regime. Nuclear Fusion, 2017, 57, 066007.	1.6	7
104	Comprehensive magnetohydrodynamic hybrid simulations of fast ion driven instabilities in a Large Helical Device experiment. Physics of Plasmas, 2017, 24, .	0.7	28
105	Collisionality dependence and ion species effects on heat transport in He and H plasma, and the role of ion scale turbulence in LHD. Nuclear Fusion, 2017, 57, 116005.	1.6	15
106	Physics-based investigation of negative ion behavior in a negative-ion-rich plasma using integrated diagnostics. AIP Conference Proceedings, 2017, .	0.3	6
107	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	1.6	116
108	Extended capability of the integrated transport analysis suite, TASK3D-a, for LHD experiment. Nuclear Fusion, 2017, 57, 126016.	1.6	28

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109	Recent Advances of Scintillator-Based Escaping Fast Ion Diagnostics in Toroidal Fusion Plasmas in Japan, Korea, and China. <i>Fusion Science and Technology</i> , 2017, 72, 60-68.	0.6	2
110	Extension of operational regime in high-temperature plasmas and effect of ECRH on ion thermal transport in the LHD. <i>Nuclear Fusion</i> , 2017, 57, 086029.	1.6	17
111	Investigation of irradiation effects on highly integrated leading-edge electronic components of diagnostics and control systems for LHD deuterium operation. <i>Nuclear Fusion</i> , 2017, 57, 086012.	1.6	12
112	Study of back streaming ion using a slot-type grounded grid in hydrogen negative-ion source. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	8
113	Installation of spectrally selective imaging system in RF negative ion source. <i>Review of Scientific Instruments</i> , 2016, 87, 02B113.	0.6	1
114	Nonlinear excitation of subcritical fast ion-driven modes. <i>Nuclear Fusion</i> , 2016, 56, 056009.	1.6	7
115	Upgraded millimeter-wave interferometer for measuring the electron density during the beam extraction in the negative ion source. <i>Review of Scientific Instruments</i> , 2016, 87, 11E105.	0.6	4
116	Charged particle flows in the beam extraction region of a negative ion source for NBI. <i>Review of Scientific Instruments</i> , 2016, 87, 02B103.	0.6	19
117	Improvement of accelerator of negative ion source on the Large Helical Device. <i>Review of Scientific Instruments</i> , 2016, 87, 02B321.	0.6	7
118	A diamond 14 MeV neutron energy spectrometer with high energy resolution. <i>Review of Scientific Instruments</i> , 2016, 87, 023503.	0.6	18
119	Isotope effects on particle transport in the Compact Helical System. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 055011.	0.9	15
120	Strong Destabilization of Stable Modes with a Half-Frequency Associated with Chirping Geodesic Acoustic Modes in the Large Helical Device. <i>Physical Review Letters</i> , 2016, 116, 015002.	2.9	36
121	Nonlinear Excitation of Subcritical Instabilities in a Toroidal Plasma. <i>Physical Review Letters</i> , 2016, 116, 015003.	2.9	24
122	Depth of Influence on the Plasma by Beam Extraction in a Negative Hydrogen Ion Source for NBI. <i>Plasma and Fusion Research</i> , 2016, 11, 2405037-2405037.	0.3	3
123	Radiation Field Estimation for the Diagnostic and Control Components by Monte Carlo Neutronics Calculations with LHD 3-Dimensional Modeling. <i>Plasma and Fusion Research</i> , 2016, 11, 2405057-2405057.	0.3	13
124	Recent Studies of Hydrogen Negative Ion Source and Beam Production for NBI in Large Helical Device. <i>Plasma and Fusion Research</i> , 2016, 11, 2505038-2505038.	0.3	5
125	Comparison of Ion Internal Transport Barrier Formation between Hydrogen and Helium Dominated Plasmas. <i>Plasma and Fusion Research</i> , 2016, 11, 2402106-2402106.	0.3	4
126	Cavity Ringdown Technique for negative-hydrogen-ion measurement in ion source for neutral beam injector. <i>Journal of Instrumentation</i> , 2016, 11, C03018-C03018.	0.5	22

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127	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
128	Negative ion production and beam extraction processes in a large ion source (invited). Review of Scientific Instruments, 2016, 87, 02B936.	0.6	33
129	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
130	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
131	Simulation study of high-frequency energetic particle driven geodesic acoustic mode. Physics of Plasmas, 2015, 22, .	0.7	28
132	Development of the Heating Scenarios to Achieve High-Ion Temperature Plasma in the Large Helical Device. Plasma and Fusion Research, 2015, 10, 1402001-1402001.	0.3	7
133	Integrated Particle Transport Simulation of NBI Plasmas in LHD. Plasma and Fusion Research, 2015, 10, 3403048-3403048.	0.3	3
134	Spatial Distributions of Charged Particles and Plasma Potential before and during Beam Extraction in a Negative Hydrogen Ion Source for NBI. Plasma and Fusion Research, 2015, 10, 3405016-3405016.	0.3	6
135	High Power Heating and Steady State Operation in the Large Helical Device. Fusion Science and Technology, 2015, 68, 216-224.	0.6	6
136	Integrated discharge scenario for high-temperature helical plasma in LHD. Nuclear Fusion, 2015, 55, 113020.	1.6	37
137	Recent Upgrading of ECRH System and Studies to Improve ECRH Performance in the LHD. EPJ Web of Conferences, 2015, 87, 02011.	0.1	9
138	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
139	Integrated transport simulations of high ion temperature plasmas of LHD. Plasma Physics and Controlled Fusion, 2015, 57, 054009.	0.9	14
140	Effect of the RF wall conditioning on the high performance plasmas in the Large Helical Device. Journal of Nuclear Materials, 2015, 463, 1100-1103.	1.3	10
141	Identification of the energetic-particle driven GAM in the LHD. Nuclear Fusion, 2015, 55, 083024.	1.6	31
142	Resistive Interchange Modes Destabilized by Helically Trapped Energetic Ions in a Helical Plasma. Physical Review Letters, 2015, 114, 155003.	2.9	37
143	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
144	Assessment of the plasma start-up in Wendelstein 7-X with neutral beam injection. Nuclear Fusion, 2015, 55, 033002.	1.6	12

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145	Optimization of the high harmonic ECRH scenario to extend a heating plasma parameter range in LHD. Nuclear Fusion, 2015, 55, 063035.	1.6	14
146	Abrupt reversal of convective flow of carbon impurity during impurity-hole formation on the LHD. Nuclear Fusion, 2015, 55, 083017.	1.6	14
147	Hydrogen atom temperature measured with wavelength-modulated laser absorption spectroscopy in large scale filament arc negative hydrogen ion source. AIP Conference Proceedings, 2015, , .	0.3	8
148	Evaluation of negative ion distribution changes by image processing diagnostic. AIP Conference Proceedings, 2015, , .	0.3	3
149	Laser photodetachment diagnostics of a 1/3-size negative hydrogen ion source for NBI. AIP Conference Proceedings, 2015, , .	0.3	6
150	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
151	Observation of MHD Instabilities Driven by Energetic Electrons in the Large Helical Device. Plasma Science and Technology, 2015, 17, 276-279.	0.7	2
152	Energetic ion losses caused by magnetohydrodynamic activity resonant and non-resonant with energetic ions in Large Helical Device. Plasma Physics and Controlled Fusion, 2014, 56, 094005.	0.9	10
153	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
154	Electron cyclotron beam measurement system in the Large Helical Device. Review of Scientific Instruments, 2014, 85, 11E822.	0.6	2
155	Extension of high Te regime with upgraded ECRH system in the LHD. , 2014, , .		2
156	Electron Bernstein wave heating and emission measurement through the very narrow O-X-B mode conversion window in the LHD. , 2014, , .		1
157	Characteristics of plasma grid bias in large-scaled negative ion source. Review of Scientific Instruments, 2014, 85, 02B131.	0.6	8
158	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
159	Development of spectrally selective imaging system for negative hydrogen ion source. Review of Scientific Instruments, 2014, 85, 02A724.	0.6	4
160	A New Deduction Method of Heat Flux Evolution From Thermal Probe Data. Contributions To Plasma Physics, 2014, 54, 285-290.	0.5	3
161	Integrated Transport Simulation of Time-Evolving LHD Plasma Using GNET-TD and TASK3D. , 2014, , .		1
162	High Ion Temperature Plasmas using an ICRF Wall-Conditioning Technique in the Large Helical Device. Plasma and Fusion Research, 2014, 9, 1402050-1402050.	0.3	13

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163	Integration of Large-Scale Simulations and Numerical Modelling Tools in Close Link with the LHD Experiment. Plasma and Fusion Research, 2014, 9, 3402017-3402017.	0.3	4
164	Fast-Ion Losses due to Externally Applied Static Magnetic Perturbations in the Large Helical Device. Plasma and Fusion Research, 2014, 9, 3402097-3402097.	0.3	4
165	Identification of the extraction structure of H^{\pm} ions by H^{\pm} imaging spectroscopy. New Journal of Physics, 2013, 15, 103026.	1.2	28
166	3-D effects on viscosity and generation of toroidal and poloidal flows in LHD. Physics of Plasmas, 2013, 20, .	0.7	10
167	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
168	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
169	A study on the TAE-induced fast-ion loss process in LHD. Nuclear Fusion, 2013, 53, 053012.	1.6	22
170	LHD accomplishments/plans in support of fusion next-steps. , 2013, , .		0
171	Reversal of Intrinsic Torque Associated with the Formation of an Internal Transport Barrier. Physical Review Letters, 2013, 111, .	2.9	19
172	Dynamic transport study of heat and momentum transport in a plasma with improved ion confinement in the Large Helical Device. Plasma Physics and Controlled Fusion, 2013, 55, 014011.	0.9	9
173	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	1.6	35
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