Yasuhiko Takeiri

List of Publications by Year
in descending order

325 papers	6,857 citations	66343 42 h-index	110387 64 g-index
326 all docs	326 docs citations	326 times ranked	1550 citing authors

#	Article	IF	Citations
1	Overview of the Large Helical Device project. Nuclear Fusion, 1999, 39, 1245-1256.	3.5	270
2	Scalings of energy confinement and density limit in stellarator/heliotron devices. Nuclear Fusion, 1990, 30, 11-21.	3.5	230
3	Initial physics achievements of large helical device experiments. Physics of Plasmas, 1999, 6, 1843-1850.	1.9	176
4	Goal and Achievements of Large Helical Device Project. Fusion Science and Technology, 2010, 58, 1-11.	1.1	127
5	Recent advances in the LHD experiment. Nuclear Fusion, 2003, 43, 1674-1683.	3.5	119
6	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	3.5	116
7	Characteristics of Electron Heat Transport of Plasma with an Electron Internal-Transport Barrier in the Large Helical Device. Physical Review Letters, 2003, 91, 085003.	7.8	107
8	Configuration flexibility and extended regimes in Large Helical Device. Plasma Physics and Controlled Fusion, 2001, 43, A55-A71.	2.1	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.	3.5	104
10	Core electron-root confinement (CERC) in helical plasmas. Nuclear Fusion, 2007, 47, 1213-1219.	3.5	97
11	Observation of an impurity hole in a plasma with an ion internal transport barrier in the Large Helical Device. Physics of Plasmas, 2009, 16, .	1.9	91
12	Energetic ion driven MHD instabilities observed in the heliotron/torsatron devices Compact Helical System and Large Helical Device. Nuclear Fusion, 2000, 40, 1349-1362.	3.5	76
13	Experimental observations of enhanced radial transport of energetic particles with AlfvÃ©n eigenmode on the LHD. Nuclear Fusion, 2006, 46, S911-S917.	3.5	76
14	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.	2.1	70
15	Negative ion source development for fusion application (invited). Review of Scientific Instruments, 2010, 81, 02B114.	1.3	70
16	Large Helical Device (LHD) program. Journal of Fusion Energy, 1996, 15, 7-153.	1.2	67
17	Observation of the â€œSelf-Healingâ€•of an Error Field Island in the Large Helical Device. Physical Review Letters, 2001, 87, 135002.	7.8	67
18	High Performance of Neutral Beam Injectors for Extension of LHD Operational Regime. Fusion Science and Technology, 2010, 58, 482-488.	1.1	66

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19	Impact of pellet injection on extension of the operational region in LHD. Nuclear Fusion, 2001, 41, 381-386.	3.5	62
20	Edge Thermal Transport Barrier In LHD Discharges. Physical Review Letters, 2000, 84, 103-106.	7.8	60
21	Formation of electron internal transport barrier and achievement of high ion temperature in Large Helical Device. Physics of Plasmas, 2003, 10, 1788-1795.	1.9	59
22	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.	7.8	58
23	Radial electric field and transport near the rational surface and the magnetic island in LHD. Nuclear Fusion, 2004, 44, 290-295.	3.5	58
24	Energy Confinement Time and Heat Transport in Initial Neutral Beam Heated Plasmas on the Large Helical Device. Physical Review Letters, 2000, 84, 1216-1219.	7.8	57
25	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. Nuclear Fusion, 2001, 41, 901-908.	3.5	56
26	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
27	Wide dynamic range neutron flux monitor having fast time response for the Large Helical Device. Review of Scientific Instruments, 2014, 85, 11E114.	1.3	54
28	Overview of LHD experiments. Nuclear Fusion, 2001, 41, 1355-1367.	3.5	53
29	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.	3.5	51
30	Island Dynamics in the Large-Helical-Device Plasmas. Physical Review Letters, 2002, 88, 055005.	7.8	50
31	Local island divertor experiments on LHD. Journal of Nuclear Materials, 2005, 337-339, 154-160.	2.7	50
32	Preparation and Commissioning for the LHD Deuterium Experiment. IEEE Transactions on Plasma Science, 2018, 46, 2324-2331.	1.3	48
33	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.	1.9	46
34	Observation of an impurity hole in the Large Helical Device. Nuclear Fusion, 2009, 49, 062002.	3.5	46
35	Negative hydrogen ion source development for large helical device neutral beam injector (invited). Review of Scientific Instruments, 2000, 71, 1225-1230.	1.3	44
36	MHD characteristics in the high beta regime of the Large Helical Device. Nuclear Fusion, 2001, 41, 1177-1183.	3.5	44

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37	Experimental studies of energetic-ion-driven MHD instabilities in Large Helical Device plasmas. Nuclear Fusion, 2005, 45, 326-336.	3.5	44
38	Extended steady-state and high-beta regimes of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2007, 47, S668-S676.	3.5	44
39	Observation of Reversed-Shear AlfvÃ©n Eigenmodes Excited by Energetic Ions in a Helical Plasma. Physical Review Letters, 2010, 105, 145003.	7.8	44
40	Mitigation of NBI-driven AlfvÃ©n eigenmodes by electron cyclotron heating in the TJ-II stellarator. Nuclear Fusion, 2013, 53, 072004.	3.5	44
41	Common Features of Core Electron-Root Confinement in Helical Devices. Fusion Science and Technology, 2006, 50, 327-342.	1.1	43
42	Spatial distribution of the charged particles and potentials during beam extraction in a negative-ion source. Review of Scientific Instruments, 2012, 83, 02B116.	1.3	43
43	Shafranov shift in the low aspect ratio heliotron/torsatron Compact Helical System. Nuclear Fusion, 1992, 32, 25-32.	3.5	42
44	The Large Helical Device: Entering Deuterium Experiment Phase Toward Steady-State Helical Fusion Reactor Based on Achievements in Hydrogen Experiment Phase. IEEE Transactions on Plasma Science, 2018, 46, 2348-2353.	1.3	42
45	Development of an intense negative hydrogen ion source with an external magnetic filter. Review of Scientific Instruments, 1995, 66, 2541-2546.	1.3	41
46	Ion and electron heating in ICRF heating experiments on LHD. Nuclear Fusion, 2001, 41, 1021-1035.	3.5	41
47	Effect of Neoclassical Transport Optimization on Energetic Ion Confinement in LHD. Fusion Science and Technology, 2004, 46, 241-247.	1.1	41
48	Plasma startup by neutral beam injection in the Large Helical Device. Nuclear Fusion, 1999, 39, 1087-1091.	3.5	40
49	Ion Heating and High-Energy-Particle Production by Ion-Cyclotron Heating in the Large Helical Device. Physical Review Letters, 2000, 85, 4530-4533.	7.8	40
50	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	3.5	39
51	Heat and momentum transport of ion internal transport barrier plasmas on the Large Helical Device. Nuclear Fusion, 2011, 51, 083022.	3.5	39
52	Realization of high T i plasmas and confinement characteristics of ITB plasmas in the LHD deuterium experiments. Nuclear Fusion, 2018, 58, 106028.	3.5	39
53	Overview of confinement and MHD stability in the Large Helical Device. Nuclear Fusion, 2005, 45, S255-S265.	3.5	38
54	Observation of the low to high confinement transition in the large helical device. Physics of Plasmas, 2005, 12, 020701.	1.9	38

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55	Steady-state operation and high energy particle production of MeV energy in the Large Helical Device. Nuclear Fusion, 2007, 47, 1250-1257.	3.5	38
56	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.	3.5	38
57	Ion cyclotron range of frequency heating experiments on the large helical device and high energy ion behavior. Physics of Plasmas, 2001, 8, 2139-2147.	1.9	37
58	Integrated discharge scenario for high-temperature helical plasma in LHD. Nuclear Fusion, 2015, 55, 113020.	3.5	37
59	In situcalibration of neutral beam port-through power and estimation of neutral beam deposition on LHD. Review of Scientific Instruments, 2001, 72, 590-593.	1.3	36
60	Observation of Helicity-Induced AlfvÃ©n Eigenmodes in Large-Helical-Device Plasmas Heated by Neutral-Beam Injection. Physical Review Letters, 2003, 91, 245001.	7.8	36
61	Current Status of Large Helical Device and Its Prospect for Deuterium Experiment. Fusion Science and Technology, 0, , 1-12.	1.1	36
62	Development and energy calibration of Si-FNA for LHD fast ion measurement. Review of Scientific Instruments, 2001, 72, 788-791.	1.3	35
63	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	3.5	35
64	Turbulence Response in the High Ti Discharge of the LHD. Plasma and Fusion Research, 2010, 5, S2053-S2053.	0.7	35
65	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.	2.1	34
66	Plasma performance and impurity behaviour in long pulse discharges on LHD. Nuclear Fusion, 2003, 43, 219-227.	3.5	34
67	Large current negative hydrogen ion beam production. Physics of Plasmas, 1994, 1, 2813-2815.	1.9	33
68	Negative ion production and beam extraction processes in a large ion source (invited). Review of Scientific Instruments, 2016, 87, 02B936.	1.3	33
69	Heating and confinement studies of electron cyclotron resonance heated plasmas in Heliotron E. Nuclear Fusion, 1988, 28, 1801-1812.	3.5	32
70	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.	2.1	31
71	Progress in development of the neutron profile monitor for the large helical device. Review of Scientific Instruments, 2014, 85, 11E110.	1.3	31
72	High power beam injection using an improved negative ion source for the large helical device. Review of Scientific Instruments, 2004, 75, 1847-1850.	1.3	30

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73	Extension and characteristics of an ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2005, 47, A81-A90.	2.1	30
74	Experiments on NBI plasmas in LHD. Plasma Physics and Controlled Fusion, 1999, 41, B157-B166.	2.1	29
75	Superdense core mode in the Large Helical Device with an internal diffusion barrier. Physics of Plasmas, 2007, 14, 056113.	1.9	29
76	Plasma confinement studies in LHD. Nuclear Fusion, 1999, 39, 1659-1666.	3.5	28
77	Repetitive pellet fuelling for high-density/steady-state operation on LHD. Nuclear Fusion, 2006, 46, 884-889.	3.5	28
78	Fast ion charge exchange spectroscopy measurement using a radially injected neutral beam on the large helical device. Review of Scientific Instruments, 2008, 79, 10E519.	1.3	28
79	Identification of the extraction structure of H^{â^'}ions by H_{Î±}imaging spectroscopy. New Journal of Physics, 2013, 15, 103026.	2.9	28
80	Prospect Toward Steady-State Helical Fusion Reactor Based on Progress of LHD Project Entering the Deuterium Experiment Phase. IEEE Transactions on Plasma Science, 2018, 46, 1141-1148.	1.3	28
81	Multibeamlet focusing of intense negative ion beams by an aperture displacement technique. Review of Scientific Instruments, 1995, 66, 5236-5243.	1.3	27
82	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.	3.5	27
83	Beamlet characteristics in the accelerator with multislot grounded grid. Review of Scientific Instruments, 2010, 81, 02B117.	1.3	27
84	Extension of the operational regime in high-temperature plasmas and the dynamic-transport characteristics in the LHD. Nuclear Fusion, 2013, 53, 073034.	3.5	26
85	The performance of ICRF heated plasmas in LHD. Nuclear Fusion, 2001, 41, 325-332.	3.5	25
86	Achievement of 10 keV Central Electron Temperatures by ECH in LHD.. Journal of Plasma and Fusion Research, 2002, 78, 99-100.	0.4	25
87	Ion cyclotron range of frequencies heating and high-energy particle production in the Large Helical Device. Nuclear Fusion, 2003, 43, 738-743.	3.5	25
88	Edge plasma control by local island divertor in LHD. Nuclear Fusion, 2005, 45, 837-842.	3.5	25
89	Experiments on the multiampere negative ion source in National Institute for Fusion Science. Review of Scientific Instruments, 1992, 63, 2683-2685.	1.3	24
90	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.	1.3	24

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91	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.	2.1	24
92	Suppression of accelerated electrons in a high-current large negative ion source. Review of Scientific Instruments, 1997, 68, 2003-2011.	1.3	23
93	Overview of the Large Helical Device. Plasma Physics and Controlled Fusion, 2000, 42, 1165-1177.	2.1	23
94	Effect of Carbon Divertor Plates on Impurities, Zeff and Density Limit in Large Helical Device. Physica Scripta, 2001, T91, 48.	2.5	23
95	Review of initial experimental results of the PSI studies in the large helical device. Journal of Nuclear Materials, 2001, 290-293, 12-18.	2.7	23
96	Control of negative ion beam uniformity by using multipower supplies for arc discharge. Review of Scientific Instruments, 2004, 75, 1744-1746.	1.3	23
97	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.	2.7	22
98	High-ion temperature experiments with negative-ion-based neutral beam injection heating in Large Helical Device. Nuclear Fusion, 2005, 45, 565-573.	3.5	22
99	Slow Transition of Energy Transport in High-Temperature Plasmas. Physical Review Letters, 2006, 96, 125006.	7.8	22
100	Cavity Ring-Down System for Density Measurement of Negative Hydrogen Ion on Negative Ion Source. AIP Conference Proceedings, 2011, , .	0.4	22
101	Steady-state operation using a dipole mode ion cyclotron heating antenna and 77 GHz electron cyclotron heating in the Large Helical Device. Nuclear Fusion, 2013, 53, 063017.	3.5	22
102	Cavity Ringdown Technique for negative-hydrogen-ion measurement in ion source for neutral beam injector. Journal of Instrumentation, 2016, 11, C03018-C03018.	1.2	22
103	Particle balance in NBI heated long pulse discharges on LHD. Journal of Nuclear Materials, 2001, 290-293, 1040-1044.	2.7	21
104	Long-pulse plasma discharge on the Large Helical Device. Nuclear Fusion, 2006, 46, S13-S21.	3.5	21
105	Neutral beam injection with an improved accelerator for LHD. Review of Scientific Instruments, 2008, 79, 02C107.	1.3	21
106	Dynamics of ion internal transport barrier in LHD heliotron and JT-60U tokamak plasmas. Nuclear Fusion, 2009, 49, 095024.	3.5	21
107	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
108	Impact of real-time magnetic axis sweeping on steady state divertor operation in LHD. Nuclear Fusion, 2006, 46, 714-724.	3.5	20

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109	Extension of the high-ion-temperature regime in the Large Helical Device. Physics of Plasmas, 2008, 15, 056111.	1.9	20
110	Research and Development Activities on Negative Ion Sources. Fusion Science and Technology, 2010, 58, 489-496.	1.1	20
111	Neutral Gas Compression in the Helical Divertor with a Baffle Structure in the LHD Heliotron. Plasma and Fusion Research, 2011, 6, 1202007-1202007.	0.7	20
112	Overview of long pulse operation in the Large Helical Device. Nuclear Fusion, 2000, 40, 1157-1166.	3.5	19
113	Comparison of electron internal transport barriers in the large helical device and JT-60U plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A45-A50.	2.1	19
114	H-mode-like transition and ELM-like bursts in LHD with thick ergodic layer. Nuclear Fusion, 2007, 47, 1033-1044.	3.5	19
115	Progress in the Integrated Development of the Helical System. Fusion Science and Technology, 2010, 58, 12-28.	1.1	19
116	Fast-Ion Confinement Studies on LHD. Fusion Science and Technology, 2010, 58, 131-140.	1.1	19
117	Experimental study of radial electric field and electrostatic potential fluctuation in the Large Helical Device. Plasma Physics and Controlled Fusion, 2010, 52, 124025.	2.1	19
118	Development of intense hydrogen-negative-ion source for neutral beam injectors at NIFS. AIP Conference Proceedings, 2013, , .	0.4	19
119	Charged particle flows in the beam extraction region of a negative ion source for NBI. Review of Scientific Instruments, 2016, 87, 02B103.	1.3	19
120	The first ICRF heating experiment in the large helical device. Plasma Physics and Controlled Fusion, 2000, 42, 265-274.	2.1	18
121	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.	3.5	18
122	Improvement of the large current negative hydrogen ion source for neutral injection in the large helical device. Fusion Engineering and Design, 1995, 26, 473-483.	1.9	17
123	Analysis of plasma initiation by neutral beams in the Large Helical Device. Nuclear Fusion, 2002, 42, 441-447.	3.5	17
124	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.	3.5	17
125	Overview of Progress in LHD Experiments. Fusion Science and Technology, 2006, 50, 136-145.	1.1	17
126	Extension of operational regime in high-temperature plasmas and effect of ECRH on ion thermal transport in the LHD. Nuclear Fusion, 2017, 57, 086029.	3.5	17

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127	Simple emittance measurement of Hâ¯ beams for neutral beam injectors in magnetic fusion. Review of Scientific Instruments, 1996, 67, 2534-2537.	1.3	16
128	LHD divertor experimental program. Journal of Nuclear Materials, 1999, 266-269, 302-306.	2.7	16
129	The effect of divertor tile material on radiation profiles in LHD. Journal of Nuclear Materials, 2001, 290-293, 930-934.	2.7	16
130	Role of core radiation during slow oscillations in LHD. Nuclear Fusion, 2001, 41, 519-525.	3.5	16
131	Experimental studies towards long pulse steady state operation in LHD. Nuclear Fusion, 2001, 41, 779-790.	3.5	16
132	Improved plasma performance on Large Helical Device. Physics of Plasmas, 2001, 8, 2002-2008.	1.9	16
133	A study of high-energy ions produced by ICRF heating in LHD. Plasma Physics and Controlled Fusion, 2002, 44, 103-119.	2.1	16
134	Impurity behaviour in LHD long pulse discharges. Plasma Physics and Controlled Fusion, 2002, 44, 2121-2134.	2.1	16
135	Sawtooth Oscillation in Current-Carrying Plasma in the Large Helical Device. Physical Review Letters, 2003, 90, 205001.	7.8	16
136	Isotope Effect of Hâ€"/Dâ€" Volume Production in Low-Pressure H2/D2 Plasmasâ€" Measurement of VUV Emissions and Negative Ion Densities. Contributions To Plasma Physics, 2004, 44, 516-522.	1.1	16
137	Role of recycling flux in gas fuelling in the Large Helical Device. Nuclear Fusion, 2004, 44, 154-161.	3.5	16
138	10 years of engineering and physics achievements by the Large Helical Device project. Fusion Engineering and Design, 2009, 84, 186-193.	1.9	16
139	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.	1.3	15
140	Initial long-pulse plasma heating at reduced power with negative-ion-based neutral beam injector in large helical device. Review of Scientific Instruments, 1999, 70, 4260-4265.	1.3	15
141	Development of fast response calorimeter for neutral beam shine-through measurement on CHS. Review of Scientific Instruments, 2001, 72, 586-589.	1.3	15
142	Compatibility between high energy particle confinement and magnetohydrodynamic stability in the inward-shifted plasmas of the Large Helical Device. Physics of Plasmas, 2002, 9, 2020-2026.	1.9	15
143	Effects of Boronization in LHD. Journal of Plasma and Fusion Research, 2003, 79, 1216-1217.	0.4	15
144	Fusion product diagnostics planned for Large Helical Device deuterium experiment. Review of Scientific Instruments, 2010, 81, 10D310.	1.3	15

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145	Characteristics of MHD instabilities limiting the beta value in LHD. Nuclear Fusion, 2015, 55, 083020.	3.5	15
146	Extension of Improved Particle and Energy Confinement Regime in the Core of LHD Plasma. Plasma and Fusion Research, 2009, 4, 027-027.	0.7	15
147	Recent results from the Large Helical Device. Plasma Physics and Controlled Fusion, 2003, 45, 671-686.	2.1	14
148	Characteristics of confinement and stability in large helical device edge plasmas. Physics of Plasmas, 2005, 12, 056122.	1.9	14
149	Development of large area rf ion sources for fusion applications. Review of Scientific Instruments, 1992, 63, 2735-2737.	1.3	13
150	Behaviour of ion temperature in electron and ion heating regimes observed with ECH, NBI and ICRF discharges of LHD. Nuclear Fusion, 2002, 42, 1179-1183.	3.5	13
151	Confinement characteristics of high-energy ions produced by ICRF heating in the large helical device. Plasma Physics and Controlled Fusion, 2003, 45, 1037-1050.	2.1	13
152	Electron ITB Formation with Combination of NBI and ECH in LHD. Fusion Science and Technology, 2004, 46, 106-114.	1.1	13
153	High Power Neutral Beam Injection in LHD. Plasma Science and Technology, 2006, 8, 24-27.	1.5	13
154	Radio frequency ion source operated with field effect transistor based radio frequency system. Review of Scientific Instruments, 2010, 81, 02B107.	1.3	13
155	Divertor heat and particle control experiments on the large helical device. Journal of Nuclear Materials, 2013, 438, S133-S138.	2.7	13
156	High Ion Temperature Plasmas using an ICRF Wall-Conditioning Technique in the Large Helical Device. Plasma and Fusion Research, 2014, 9, 1402050-1402050.	0.7	13
157	Long-pulse operation of a cesium-seeded high-current large negative ion source. Review of Scientific Instruments, 1997, 68, 2012-2019.	1.3	12
158	Investigation of beam deflection reduction and multi-beamlet focus at a large-area negative ion source for a neutral beam injector with 3-D beam trajectory simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 22-35.	1.6	12
159	Optimization of Cs deposition in the 1/3 scale hydrogen negative ion source for the large helical device-neutral beam injection system. Review of Scientific Instruments, 2000, 71, 1379-1384.	1.3	12
160	Electron cyclotron heating scenario and experimental results in LHD. Fusion Engineering and Design, 2001, 53, 329-336.	1.9	12
161	Derivation of energy confinement time and ICRF absorption in LHD by power modulation. Plasma Physics and Controlled Fusion, 2001, 43, 1191-1210.	2.1	12
162	Fast ion charge exchange spectroscopy adapted for tangential viewing geometry in LHD. Review of Scientific Instruments, 2010, 81, 10D327.	1.3	12

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163	Response of Hâ¯ ions to extraction field in a negative hydrogen ion source. Fusion Engineering and Design, 2017, 123, 481-484.	1.9	12
164	First results of deuterium beam operation on neutral beam injectors in the large helical device. AIP Conference Proceedings, 2018, , .	0.4	12
165	Cesium-seeded experiments on the 1/3-scaled Hâ¯ ion source for large helical device. AIP Conference Proceedings, 1992, , .	0.4	11
166	Plasma Characteristics of a Large RF-Driven Negative Hydrogen Ion Source. Japanese Journal of Applied Physics, 1996, 35, 2356-2362.	1.5	11
167	Microwave plasma source for the negative hydrogen ion production. Review of Scientific Instruments, 1998, 69, 971-973.	1.3	11
168	High-current negative-ion beam acceleration with a large negative-ion source for large helical device-neutral beam injection system. Review of Scientific Instruments, 1998, 69, 977-979.	1.3	11
169	Thermal transport barrier in heliotron-type devices (Large Helical Device and Compact Helical System). Physics of Plasmas, 2000, 7, 1802-1808.	1.9	11
170	Development of the JT-60SA Neutral Beam Injectors. AIP Conference Proceedings, 2011, , .	0.4	11
171	Advanced Helical Plasma Research towards a Steady-State Fusion Reactor by Deuterium Experiments in Large Helical Device. Atoms, 2018, 6, 69.	1.6	11
172	Ion Heating Experiments Using Perpendicular Neutral Beam Injection in the Large Helical Device. Plasma and Fusion Research, 2008, 3, S1013-S1013.	0.7	11
173	Hâ¯ measurement in the magnetically filtered region of the large negative ion source. Review of Scientific Instruments, 1998, 69, 944-946.	1.3	10
174	Recovery of cesium in the hydrogen negative ion sources. Review of Scientific Instruments, 2000, 71, 741-743.	1.3	10
175	Review on the Progress of the LHD Experiment. Fusion Science and Technology, 2004, 46, 1-12.	1.1	10
176	Dynamic transport study of the plasmas with transport improvement in LHD and JT-60U. Nuclear Fusion, 2009, 49, 015005.	3.5	10
177	3-D effects on viscosity and generation of toroidal and poloidal flows in LHD. Physics of Plasmas, 2013, 20, .	1.9	10
178	Hâ¯ density profile and response to applied bias and extraction voltages in Hâ¯ source. AIP Conference Proceedings, 2013, , .	0.4	10
179	Effect of the RF wall conditioning on the high performance plasmas in the Large Helical Device. Journal of Nuclear Materials, 2015, 463, 1100-1103.	2.7	10
180	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.	3.5	10

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181	Visualization of H^{â^'} Dynamics in Extraction Region of Negative-Ion Source by H_{Î±} Imaging Spectroscopy. Plasma and Fusion Research, 2013, 8, 1301036-1301036.	0.7	10
182	Highâ€energy and highâ€current hydrogen negativeâ€ion beam production with an externalâ€filterâ€type large negativeâ€ion source. Review of Scientific Instruments, 1996, 67, 1021-1023.	1.3	9
183	Cesium injection into a large rfâ€driven hydrogen negativeâ€ion source. Review of Scientific Instruments, 1996, 67, 1024-1026.	1.3	9
184	Energetic negative ion source for fusion at NIFS (invited). Review of Scientific Instruments, 1996, 67, 1114-1119.	1.3	9
185	Improvement of a large negative ion source for the Large Helical Device neutral beam injector. Review of Scientific Instruments, 2002, 73, 1087-1089.	1.3	9
186	Potential Measurement with the 6-MeV Heavy Ion Beam Probe of LHD. Plasma and Fusion Research, 2010, 5, S1015-S1015.	0.7	9
187	Ion Internal Transport Barrier in the Large Helical Device. Contributions To Plasma Physics, 2010, 50, 558-561.	1.1	9
188	Comparison of Optical Emission Spectroscopy and Cavity Ring-Down Spectroscopy in Large-Scaled Negative-Ion Source. AIP Conference Proceedings, 2011, , .	0.4	9
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