

# Sadayoshi Murakami

## List of Publications by Year in descending order

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315  
papers

6,685  
citations

61857

43  
h-index

102304

66  
g-index

317  
all docs

317  
docs citations

317  
times ranked

1494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the Large Helical Device project. Nuclear Fusion, 1999, 39, 1245-1256.	1.6	270
2	Characterization of energy confinement in net-current free plasmas using the extended International Stellarator Database. Nuclear Fusion, 2005, 45, 1684-1693.	1.6	215
3	Initial physics achievements of large helical device experiments. Physics of Plasmas, 1999, 6, 1843-1850.	0.7	176
4	Finite $\hat{I}^2$ Effects on the ICRF and NBI Heating in the Large Helical Device. Fusion Science and Technology, 1995, 27, 256-259.	0.6	121
5	Recent advances in the LHD experiment. Nuclear Fusion, 2003, 43, 1674-1683.	1.6	119
6	Benchmarking of the mono-energetic transport coefficientsâ€”results from the International Collaboration on Neoclassical Transport in Stellarators (ICNTS). Nuclear Fusion, 2011, 51, 076001.	1.6	118
7	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	1.6	116
8	Characteristics of Electron Heat Transport of Plasma with an Electron Internal-Transport Barrier in the Large Helical Device. Physical Review Letters, 2003, 91, 085003.	2.9	107
9	The neoclassical â€œElectron Rootâ€”feature in the Wendelstein-7-AS stellarator. Physics of Plasmas, 2000, 7, 295-311.	0.7	106
10	Configuration flexibility and extended regimes in Large Helical Device. Plasma Physics and Controlled Fusion, 2001, 43, A55-A71.	0.9	106
11	Neoclassical transport optimization of LHD. Nuclear Fusion, 2002, 42, L19-L22.	1.6	105
12	Core electron-root confinement (CERC) in helical plasmas. Nuclear Fusion, 2007, 47, 1213-1219.	1.6	97
13	Effects of global MHD instability on operational high beta-regime in LHD. Nuclear Fusion, 2005, 45, 1247-1254.	1.6	87
14	Neoclassical transport simulations for stellarators. Physics of Plasmas, 2011, 18, .	0.7	84
15	Technical challenges in the construction of the steady-state stellarator Wendelstein 7-X. Nuclear Fusion, 2013, 53, 126001.	1.6	77
16	A new $\delta$ method for neoclassical transport studies. Plasma Physics and Controlled Fusion, 1999, 41, 1091-1108.	0.9	73
17	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
18	Large Helical Device (LHD) program. Journal of Fusion Energy, 1996, 15, 7-153.	0.5	67

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19	Observation of the "Self-Healing" of an Error Field Island in the Large Helical Device. <i>Physical Review Letters</i> , 2001, 87, 135002.	2.9	67
20	Experimental study of particle transport and density fluctuations in LHD. <i>Nuclear Fusion</i> , 2006, 46, 110-122.	1.6	64
21	5-D simulation study of suprathreshold electron transport in non-axisymmetric plasmas. <i>Nuclear Fusion</i> , 2000, 40, 693-700.	1.6	63
22	Impact of pellet injection on extension of the operational region in LHD. <i>Nuclear Fusion</i> , 2001, 41, 381-386.	1.6	62
23	Edge Thermal Transport Barrier In LHD Discharges. <i>Physical Review Letters</i> , 2000, 84, 103-106.	2.9	60
24	Neutron Diagnostics in the Large Helical Device. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2050-2058.	0.6	60
25	Formation of electron internal transport barrier and achievement of high ion temperature in Large Helical Device. <i>Physics of Plasmas</i> , 2003, 10, 1788-1795.	0.7	59
26	Reduction of Ion Thermal Diffusivity Associated with the Transition of the Radial Electric Field in Neutral-Beam-Heated Plasmas in the Large Helical Device. <i>Physical Review Letters</i> , 2001, 86, 5297-5300.	2.9	58
27	Radial electric field and transport near the rational surface and the magnetic island in LHD. <i>Nuclear Fusion</i> , 2004, 44, 290-295.	1.6	58
28	Energy Confinement Time and Heat Transport in Initial Neutral Beam Heated Plasmas on the Large Helical Device. <i>Physical Review Letters</i> , 2000, 84, 1216-1219.	2.9	57
29	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. <i>Nuclear Fusion</i> , 2004, 44, 217-225.	1.6	57
30	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2001, 41, 901-908.	1.6	56
31	Development of net-current free heliotron plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2009, 49, 104015.	1.6	54
32	Overview of LHD experiments. <i>Nuclear Fusion</i> , 2001, 41, 1355-1367.	1.6	53
33	Escaping fast ion diagnostics in compact helical system heliotron/torsatron. <i>Review of Scientific Instruments</i> , 1999, 70, 827-830.	0.6	51
34	Island Dynamics in the Large-Helical-Device Plasmas. <i>Physical Review Letters</i> , 2002, 88, 055005.	2.9	50
35	Confinement physics study in a small low aspect ratio helical device: CHS. <i>Nuclear Fusion</i> , 1999, 39, 1337-1350.	1.6	49
36	Physics and engineering design of the low aspect ratio quasi-axisymmetric stellarator CHS-qa. <i>Nuclear Fusion</i> , 2001, 41, 1865-1871.	1.6	47

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37	H-mode confinement of Heliotron J. Nuclear Fusion, 2005, 45, 1557-1570.	1.6	47
38	A global simulation study of ICRF heating in the LHD. Nuclear Fusion, 2006, 46, S425-S432.	1.6	47
39	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
40	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
41	MHD characteristics in the high beta regime of the Large Helical Device. Nuclear Fusion, 2001, 41, 1177-1183.	1.6	44
42	Experimental studies of energetic-ion-driven MHD instabilities in Large Helical Device plasmas. Nuclear Fusion, 2005, 45, 326-336.	1.6	44
43	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
44	Observation of Reversed-Shear Alfvén Eigenmodes Excited by Energetic Ions in a Helical Plasma. Physical Review Letters, 2010, 105, 145003.	2.9	44
45	Common Features of Core Electron-Root Confinement in Helical Devices. Fusion Science and Technology, 2006, 50, 327-342.	0.6	43
46	Energetic ion confinement studies using comprehensive neutron diagnostics in the Large Helical Device. Nuclear Fusion, 2019, 59, 076017.	1.6	43
47	Ion and electron heating in ICRF heating experiments on LHD. Nuclear Fusion, 2001, 41, 1021-1035.	1.6	41
48	Effect of Neoclassical Transport Optimization on Energetic Ion Confinement in LHD. Fusion Science and Technology, 2004, 46, 241-247.	0.6	41
49	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
50	Inter-machine validation study of neoclassical transport modelling in medium- to high-density stellarator-heliotron plasmas. Nuclear Fusion, 2013, 53, 063022.	1.6	40
51	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	1.6	39
52	Heat and momentum transport of ion internal transport barrier plasmas on the Large Helical Device. Nuclear Fusion, 2011, 51, 083022.	1.6	39
53	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
54	Overview of confinement and MHD stability in the Large Helical Device. Nuclear Fusion, 2005, 45, S255-S265.	1.6	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.	1.6	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.	1.6	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.	0.7	37
58	Studies of fast-ion transport induced by energetic particle modes using fast-particle diagnostics with high time resolution in CHS. Nuclear Fusion, 2006, 46, S918-S925.	1.6	37
59	Integrated discharge scenario for high-temperature helical plasma in LHD. Nuclear Fusion, 2015, 55, 113020.	1.6	37
60	In situ calibration 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
61	Observation of Helicity-Induced Alfvén Eigenmodes in Large-Helical-Device Plasmas Heated by Neutral-Beam Injection. Physical Review Letters, 2003, 91, 245001.	2.9	36
62	Density limit study focusing on the edge plasma parameters in LHD. Nuclear Fusion, 2008, 48, 015003.	1.6	36
63	Current Status of Large Helical Device and Its Prospect for Deuterium Experiment. Fusion Science and Technology, 0, , 1-12.	0.6	36
64	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	1.6	35
65	Turbulence Response in the High Ti Discharge of the LHD. Plasma and Fusion Research, 2010, 5, S2053-S2053.	0.3	35
66	Charge exchange neutral particle analysis with natural diamond detectors on LHD heliotron. Review of Scientific Instruments, 2001, 72, 611-614.	0.6	34
67	Plasma performance and impurity behaviour in long pulse discharges on LHD. Nuclear Fusion, 2003, 43, 219-227.	1.6	34
68	Increased understanding of neoclassical internal transport barriers in CHS. Nuclear Fusion, 2004, 44, 342-349.	1.6	34
69	Physical model assessment of the energy confinement time scaling in stellarators. Nuclear Fusion, 2007, 47, 1265-1273.	1.6	34
70	Energetic ion driven Alfvén 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
71	Extension and characteristics of an ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2005, 47, A81-A90.	0.9	30
72	Extension of high $\langle i \rangle T_e$ regime with upgraded electron cyclotron resonance heating system in the Large Helical Device. Physics of Plasmas, 2014, 21, .	0.7	30

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73	Experiments on NBI plasmas in LHD. Plasma Physics and Controlled Fusion, 1999, 41, B157-B166.	0.9	29
74	Strong electron heating in CHS ICRF heating experiments. Nuclear Fusion, 1997, 37, 53-68.	1.6	28
75	Plasma confinement studies in LHD. Nuclear Fusion, 1999, 39, 1659-1666.	1.6	28
76	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
77	Extended capability of the integrated transport analysis suite, TASK3D-a, for LHD experiment. Nuclear Fusion, 2017, 57, 126016.	1.6	28
78	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
79	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
80	The performance of ICRF heated plasmas in LHD. Nuclear Fusion, 2001, 41, 325-332.	1.6	25
81	Achievement of 10 keV Central Electron Temperatures by ECH in LHD.. Journal of Plasma and Fusion Research, 2002, 78, 99-100.	0.4	25
82	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
83	Particle Transport of LHD. Fusion Science and Technology, 2010, 58, 70-90.	0.6	25
84	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
85	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
86	Monte Carlo simulation study of ICRF minority heating in the Large Helical Device. Nuclear Fusion, 1994, 34, 913-925.	1.6	23
87	High-temperature mechanical properties of hot-pressed TiN with fine grain size. Journal of Materials Science, 1998, 33, 2047-2052.	1.7	23
88	Overview of the Large Helical Device. Plasma Physics and Controlled Fusion, 2000, 42, 1165-1177.	0.9	23
89	Time-resolved triton burnup measurement using the scintillating fiber detector in the Large Helical Device. Nuclear Fusion, 2018, 58, 034002.	1.6	23
90	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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91	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
92	Construction of Neoclassical Transport Database for Large Helical Device Plasma Applying Neural Network Method. Japanese Journal of Applied Physics, 2007, 46, 1157-1167.	0.8	21
93	Fast-Particle Diagnostics on LHD. Fusion Science and Technology, 2010, 58, 426-435.	0.6	21
94	Electron heating of over-dense plasma with dual-frequency electron cyclotron waves in fully non-inductive plasma ramp-up on the QUEST spherical tokamak. Nuclear Fusion, 2020, 60, 016030.	1.6	20
95	Overview of long pulse operation in the Large Helical Device. Nuclear Fusion, 2000, 40, 1157-1166.	1.6	19
96	Microinstability studies for the large helical device. Nuclear Fusion, 2002, 42, 1047-1054.	1.6	19
97	Comparison of electron internal transport barriers in the large helical device and JT-60U plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A45-A50.	0.9	19
98	Fast-Ion Confinement Studies on LHD. Fusion Science and Technology, 2010, 58, 131-140.	0.6	19
99	The first ICRF heating experiment in the large helical device. Plasma Physics and Controlled Fusion, 2000, 42, 265-274.	0.9	18
100	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
101	Spatially resolved measurements of energetic neutral particle distributions in the Large Helical Device. Review of Scientific Instruments, 2003, 74, 1873-1877.	0.6	18
102	Experimental study on ion temperature behaviours in ECH, ICRF and NBI H <sub>2</sub> , He and Ne discharges of the Large Helical Device. Nuclear Fusion, 2003, 43, 899-909.	1.6	18
103	Observation of pellet ablation behaviour on the large helical device. Nuclear Fusion, 2004, 44, 624-630.	1.6	18
104	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
105	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
106	Overview of Progress in LHD Experiments. Fusion Science and Technology, 2006, 50, 136-145.	0.6	17
107	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
108	Development of Integrated Transport Code, TASK3D, and Its Applications to LHD Experiment. Plasma and Fusion Research, 2012, 7, 2403011-2403011.	0.3	17

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109	Effect of energetic ion loss on ICRF heating efficiency and energy confinement time in heliotrons. Nuclear Fusion, 1999, 39, 1165-1173.	1.6	16
110	Role of core radiation during slow oscillations in LHD. Nuclear Fusion, 2001, 41, 519-525.	1.6	16
111	Experimental studies towards long pulse steady state operation in LHD. Nuclear Fusion, 2001, 41, 779-790.	1.6	16
112	Improved plasma performance on Large Helical Device. Physics of Plasmas, 2001, 8, 2002-2008.	0.7	16
113	A study of high-energy ions produced by ICRF heating in LHD. Plasma Physics and Controlled Fusion, 2002, 44, 103-119.	0.9	16
114	Sawtooth Oscillation in Current-Carrying Plasma in the Large Helical Device. Physical Review Letters, 2003, 90, 205001.	2.9	16
115	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
116	Self-sustained detachment in the Large Helical Device. Nuclear Fusion, 2006, 46, 532-540.	1.6	16
117	Formularization of the confinement enhancement factor as a function of the heating profile for FFHR-d1 core plasma design. Nuclear Fusion, 2012, 52, 123007.	1.6	16
118	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.	0.7	15
119	Physics analyses on the core plasma properties in the helical fusion DEMO reactor FFHR-d1. Nuclear Fusion, 2014, 54, 043010.	1.6	15
120	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
121	Initial results from solenoid-free plasma start-up using Transient CHI on QUEST. Plasma Physics and Controlled Fusion, 2018, 60, 115001.	0.9	15
122	Vector Implementation of Nonlinear Monte Carlo Coulomb Collisions. Journal of Computational Physics, 1996, 128, 209-222.	1.9	14
123	Drift mode calculations for the Large Helical Device. Physics of Plasmas, 2000, 7, 4942-4947.	0.7	14
124	Observation of flow reversal in plasmas with a neoclassical internal transport barrier in CHS. Plasma Physics and Controlled Fusion, 2002, 44, 361-370.	0.9	14
125	Recent results from the Large Helical Device. Plasma Physics and Controlled Fusion, 2003, 45, 671-686.	0.9	14
126	Effect of Magnetic Configuration on Particle Transport and Density Fluctuation in LHD. Fusion Science and Technology, 2007, 51, 97-111.	0.6	14



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127	ICRF Heating and Ion Tail Formation in LHD. Fusion Science and Technology, 2010, 58, 515-523.	0.6	14
128	Development of Integrated Transport Analysis Suite for LHD Plasmas Towards Transport Model Validation and Increased Predictability. Plasma and Fusion Research, 2013, 8, 2403016-2403016.	0.3	14
129	Integrated transport simulations of high ion temperature plasmas of LHD. Plasma Physics and Controlled Fusion, 2015, 57, 054009.	0.9	14
130	Effect of Rotational Transform and Magnetic Shear on Confinement of Stellarators. Plasma and Fusion Research, 2008, 3, S1004-S1004.	0.3	14
131	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.	1.6	13
132	Characterization of edge pressure in the Large Helical Device. Plasma Physics and Controlled Fusion, 2002, 44, A245-A251.	0.9	13
133	Confinement characteristics of high-energy ions produced by ICRF heating in the large helical device. Plasma Physics and Controlled Fusion, 2003, 45, 1037-1050.	0.9	13
134	Impurity transport model for the normal confinement and high density H-mode discharges in Wendelstein 7-AS. Plasma Physics and Controlled Fusion, 2003, 45, 1931-1938.	0.9	13
135	Confinement characteristics of the quasi-axisymmetric stellarator CHS-qa. Nuclear Fusion, 2004, 44, 575-581.	1.6	13
136	Electron ITB Formation with Combination of NBI and ECH in LHD. Fusion Science and Technology, 2004, 46, 106-114.	0.6	13
137	Assessment of Global Stellarator Confinement: Status of the International Stellarator Confinement Database. Fusion Science and Technology, 2007, 51, 1-7.	0.6	13
138	Neoclassical electron transport calculation by using $\hat{\Gamma}$ f Monte Carlo method. Physics of Plasmas, 2011, 18, 032511.	0.7	13
139	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
140	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
141	The isotope effect on impurities and bulk ion particle transport in the Large Helical Device. Nuclear Fusion, 2019, 59, 056029.	1.6	13
142	Evaluation of Neutron Emission Rate with FIT3D-DD Code in Large Helical Device. Plasma and Fusion Research, 2019, 14, 3402126-3402126.	0.3	13
143	Electron cyclotron heating scenario and experimental results in LHD. Fusion Engineering and Design, 2001, 53, 329-336.	1.0	12
144	Derivation of energy confinement time and ICRF absorption in LHD by power modulation. Plasma Physics and Controlled Fusion, 2001, 43, 1191-1210.	0.9	12

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145	Fast ion charge exchange spectroscopy adapted for tangential viewing geometry in LHD. Review of Scientific Instruments, 2010, 81, 10D327.	0.6	12
146	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
147	Transport Study of LHD High-Beta Plasmas Based on Power Balance Analysis with TASK3D Code Module. Plasma and Fusion Research, 2011, 6, 2402081-2402081.	0.3	12
148	Thermal transport barrier in heliotron-type devices (Large Helical Device and Compact Helical System). Physics of Plasmas, 2000, 7, 1802-1808.	0.7	11
149	Study of ripple-trapped proton behaviour in LHD by two line-of-sight measurements of fast neutrals. Nuclear Fusion, 2004, 44, 488-495.	1.6	11
150	Effect of Neoclassical Transport Optimization on Electron Heat Transport in Low-Collisionality LHD Plasmas. Fusion Science and Technology, 2007, 51, 112-121.	0.6	11
151	Study of $\pm$ -particle confinement in an LHD-type heliotron reactor. Nuclear Fusion, 2013, 53, 093030.	1.6	11
152	A study about optimum stator pole design of Axial-gap switched reluctance motor. , 2014, , .		11
153	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
154	Particle balance investigation with the combination of the hydrogen barrier model and rate equations of hydrogen state in long duration discharges on an all-metal plasma facing wall in QUEST. Nuclear Fusion, 2019, 59, 076007.	1.6	11
155	28-GHz ECHCD system with beam focusing launcher on the QUEST spherical tokamak. Fusion Engineering and Design, 2019, 146, 1149-1152.	1.0	11
156	Study of first orbit losses of 1 MeV tritons using the Lorentz orbit code in the LHD. Plasma Science and Technology, 2019, 21, 025102.	0.7	11
157	Electron Pressure Profiles in High-Density Neutral Beam Heated Plasmas in the Large Helical Device. Journal of Plasma and Fusion Research, 2005, 81, 302-311.	0.4	11
158	Configuration Effects on Local Transport in High-Beta LHD Plasmas. Plasma and Fusion Research, 2008, 3, 022-022.	0.3	11
159	Study of Neoclassical Transport in LHD Plasmas by Applying the DCOM/NNW Neoclassical Transport Database. Plasma and Fusion Research, 2008, 3, S1030-S1030.	0.3	11
160	Effect of Halo Neutrals on Fast-Ion Charge Exchange Spectroscopy Measurements in LHD. Plasma and Fusion Research, 2010, 5, S2099-S2099.	0.3	11
161	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
162	Nonadiabatic behavior of the magnetic moment of a charged particle in a dipole magnetic field. Physics of Fluids B, 1990, 2, 715-724.	1.7	10

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163	A Description of a D- <sup>3</sup> He Fusion Reactor Based on a Dipole Magnetic Field. Fusion Science and Technology, 1992, 22, 27-34.	0.6	10
164	Statistical properties of the radial transport in the magnetic field with radially bounded stochastic region. Physica A: Statistical Mechanics and Its Applications, 2003, 322, 13-37.	1.2	10
165	Review on the Progress of the LHD Experiment. Fusion Science and Technology, 2004, 46, 1-12.	0.6	10
166	Transport Analysis of High-Beta Plasmas on LHD. Fusion Science and Technology, 2007, 51, 129-137.	0.6	10
167	Electrostatic Potential Measurement by Using 6-MeV Heavy Ion Beam Probe on LHD. Plasma and Fusion Research, 2008, 3, 031-031.	0.3	10
168	Development of 6-MeV Heavy Ion Beam Probe on LHD. Fusion Science and Technology, 2010, 58, 436-444.	0.6	10
169	Development of the Neoclassical Transport Module for the Integrated Simulation Code in Helical Plasmas. Contributions To Plasma Physics, 2010, 50, 582-585.	0.5	10
170	A convergence study for the Laguerre expansion in the moment equation method for neoclassical transport in general toroidal plasmas. Physics of Plasmas, 2010, 17, .	0.7	10
171	3-D effects on viscosity and generation of toroidal and poloidal flows in LHD. Physics of Plasmas, 2013, 20, .	0.7	10
172	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
173	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
174	Simulation study of NBI heating in the time-evolving and multi-ion-species plasmas of LHD. Nuclear Fusion, 2016, 56, 026003.	1.6	10
175	Measurements of radial profile of hydrogen and deuterium density in isotope mixture plasmas using bulk charge exchange spectroscopy. Review of Scientific Instruments, 2019, 90, 093503.	0.6	10
176	Orbital aspects of reachable beta value in NBI heated heliotron/torsatrons. Nuclear Fusion, 1996, 36, 359-365.	1.6	9
177	Î±-particle confinement optimization in quasi-axisymmetric configurations. Plasma Physics and Controlled Fusion, 2001, 43, 137-144.	0.9	9
178	Transport of the plasma with neoclassical internal transport barrier on CHS. Plasma Physics and Controlled Fusion, 2002, 44, A197-A201.	0.9	9
179	Fueling efficiency of gas puffing on large helical device. Journal of Nuclear Materials, 2003, 313-316, 534-538.	1.3	9
180	Observations of edge radial electric field transition in LHD plasmas. Plasma Physics and Controlled Fusion, 2004, 46, 1021-1025.	0.9	9

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181	Characteristics of sawtooth oscillations observed in the compact helical system. <i>Physics of Plasmas</i> , 2004, 11, 1537-1544.	0.7	9
182	Reheat Mode Discharges in Search of Attainable High Stored Energy and Density Limit of Compact Helical System. <i>Fusion Science and Technology</i> , 2006, 50, 229-235.	0.6	9
183	Characteristics of the Global Energy Confinement and Central Pressure in LHD. <i>Fusion Science and Technology</i> , 2010, 58, 29-37.	0.6	9
184	Density fluctuation measurements using beam emission spectroscopy on Heliotron J. <i>Review of Scientific Instruments</i> , 2012, 83, 10D535.	0.6	9
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