

Suguru Masuzaki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Suppression of Large Edge-Localized Modes in High-Confinement DIII-D Plasmas with a Stochastic Magnetic Boundary. <i>Physical Review Letters</i> , 2004, 92, 235003.	7.8	734
2	Overview of the Large Helical Device project. <i>Nuclear Fusion</i> , 1999, 39, 1245-1256.	3.5	270
3	Initial physics achievements of large helical device experiments. <i>Physics of Plasmas</i> , 1999, 6, 1843-1850.	1.9	176
4	Suppression of large edge localized modes with edge resonant magnetic fields in high confinement DIII-D plasmas. <i>Nuclear Fusion</i> , 2005, 45, 595-607.	3.5	166
5	Overview of first Wendelstein 7-X high-performance operation. <i>Nuclear Fusion</i> , 2019, 59, 112004.	3.5	165
6	Observation of Stable Superdense Core Plasmas in the Large Helical Device. <i>Physical Review Letters</i> , 2006, 97, 055002.	7.8	133
7	The divertor plasma characteristics in the Large Helical Device. <i>Nuclear Fusion</i> , 2002, 42, 750-758.	3.5	123
8	Recent advances in the LHD experiment. <i>Nuclear Fusion</i> , 2003, 43, 1674-1683.	3.5	119
9	Extension of the operational regime of the LHD towards a deuterium experiment. <i>Nuclear Fusion</i> , 2017, 57, 102023.	3.5	116
10	Configuration flexibility and extended regimes in Large Helical Device. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, A55-A71.	2.1	106
11	Exfoliation of the tungsten fibreform nanostructure by unipolar arcing in the LHD divertor plasma. <i>Nuclear Fusion</i> , 2011, 51, 102001.	3.5	73
12	The divertor program in stellarators. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 2365-2422.	2.1	71
13	Formation of electron internal transport barriers by highly localized electron cyclotron resonance heating in the large helical device. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 1183-1192.	2.1	70
14	Demonstration of reduced neoclassical energy transport in Wendelstein 7-X. <i>Nature</i> , 2021, 596, 221-226.	27.8	69
15	Observation of the "Self-Healing" of an Error Field Island in the Large Helical Device. <i>Physical Review Letters</i> , 2001, 87, 135002.	7.8	67
16	Recent progress in understanding the behavior of dust in fusion devices. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124054.	2.1	66
17	Experimental study of particle transport and density fluctuations in LHD. <i>Nuclear Fusion</i> , 2006, 46, 110-122.	3.5	64
18	Impact of pellet injection on extension of the operational region in LHD. <i>Nuclear Fusion</i> , 2001, 41, 381-386.	3.5	62

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19	Progress summary of LHD engineering design and construction. Nuclear Fusion, 2000, 40, 599-609.	3.5	60
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	Helium I line intensity ratios in a plasma for the diagnostics of fusion edge plasmas. Review of Scientific Instruments, 1996, 67, 3521-3529.	1.3	57
25	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. Nuclear Fusion, 2004, 44, 217-225.	3.5	57
26	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
27	Recent progress of divertor simulation research using the GAMMA 10/PDX tandem mirror. Nuclear Fusion, 2017, 57, 116033.	3.5	56
28	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
29	Overview of LHD experiments. Nuclear Fusion, 2001, 41, 1355-1367.	3.5	53
30	Conceptual design activities and key issues on LHD-type reactor FFHR. Fusion Engineering and Design, 2006, 81, 2703-2712.	1.9	53
31	Optimization activities on design studies of LHD-type reactor FFHR. Fusion Engineering and Design, 2008, 83, 1690-1695.	1.9	53
32	Dust generation in tokamaks: Overview of beryllium and tungsten dust characterisation in JET with the ITER-like wall. Fusion Engineering and Design, 2018, 136, 579-586.	1.9	52
33	Control of the radial electric field shear by modification of the magnetic field configuration in LHD. Nuclear Fusion, 2005, 45, 391-398.	3.5	51
34	Detachment stabilization with $n/m=1/1$ resonant magnetic perturbation field applied to the stochastic magnetic boundary of the Large Helical Device. Physics of Plasmas, 2010, 17, 056111.	1.9	51
35	Island Dynamics in the Large-Helical-Device Plasmas. Physical Review Letters, 2002, 88, 055005.	7.8	50
36	Local island divertor experiments on LHD. Journal of Nuclear Materials, 2005, 337-339, 154-160.	2.7	50

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37	Edge impurity transport study in the stochastic layer of LHD and the scrape-off layer of HL-2A. Nuclear Fusion, 2013, 53, 033011.	3.5	50
38	Some problems arising due to plasma-surface interaction for operation of the in-vessel mirrors in a fusion reactor. Journal of Nuclear Materials, 2001, 290-293, 336-340.	2.7	48
39	Control of 3D edge radiation structure with resonant magnetic perturbation fields applied to the stochastic layer and stabilization of radiative divertor plasma in LHD. Nuclear Fusion, 2013, 53, 093032.	3.5	48
40	ICRF long-pulse discharge and interaction with a chamber wall and antennas in LHD. Journal of Nuclear Materials, 2007, 363-365, 1323-1328.	2.7	47
41	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
42	Ergodic edge region of large helical device. Journal of Nuclear Materials, 2003, 313-316, 548-552.	2.7	45
43	First EMC3-EIRENE Simulations with Divertor Legs of LHD in Realistic Device Geometry. Contributions To Plasma Physics, 2014, 54, 437-441.	1.1	45
44	Experimental study on plasma heat flow to plasma-facing materials. Journal of Nuclear Materials, 1995, 223, 286-293.	2.7	44
45	MHD characteristics in the high beta regime of the Large Helical Device. Nuclear Fusion, 2001, 41, 1177-1183.	3.5	44
46	Experimental studies of energetic-ion-driven MHD instabilities in Large Helical Device plasmas. Nuclear Fusion, 2005, 45, 326-336.	3.5	44
47	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
48	Overview of steady state tokamak plasma experiments in TRIAM-1M. Nuclear Fusion, 2003, 43, 1600-1609.	3.5	43
49	Ion and electron heating in ICRF heating experiments on LHD. Nuclear Fusion, 2001, 41, 1021-1035.	3.5	41
50	Fluid features of the stochastic layer transport in LHD. Nuclear Fusion, 2008, 48, 024012.	3.5	41
51	Impact of arcing on carbon and tungsten: from the observations in JT-60U, LHD and NAGDIS-II. Nuclear Fusion, 2013, 53, 053013.	3.5	41
52	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
53	Helical divertor operation and erosion/deposition at target surfaces in LHD. Journal of Nuclear Materials, 2003, 313-316, 1-10.	2.7	40
54	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	3.5	39

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55	Experimental study of impurity screening in the edge ergodic layer of the Large Helical Device using carbon emissions of CIII to CVI. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	39
56	Transport Characteristics in the Stochastic Magnetic Boundary of LHD: Magnetic Field Topology and Its Impact on Divertor Physics and Impurity Transport. <i>Fusion Science and Technology</i> , 2010, 58, 220-231.	1.1	39
57	Three-dimensional impurity transport modeling of neon-seeded and nitrogen-seeded LHD plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 084005.	2.1	39
58	Ion temperature measurement using an ion sensitive probe in the LHD divertor plasma. <i>Journal of Nuclear Materials</i> , 2003, 313-316, 696-700.	2.7	38
59	Overview of confinement and MHD stability in the Large Helical Device. <i>Nuclear Fusion</i> , 2005, 45, S255-S265.	3.5	38
60	Observation of the low to high confinement transition in the large helical device. <i>Physics of Plasmas</i> , 2005, 12, 020701.	1.9	38
61	Magnetic field structure and confinement of energetic particles in the LHD. <i>Nuclear Fusion</i> , 2006, 46, 291-305.	3.5	38
62	Steady-state operation and high energy particle production of MeV energy in the Large Helical Device. <i>Nuclear Fusion</i> , 2007, 47, 1250-1257.	3.5	38
63	Characterization and operational regime of high density plasmas with internal diffusion barrier observed in the Large Helical Device. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B487-B496.	2.1	38
64	Effective screening of iron impurities in the ergodic layer of the Large Helical Device with a metallic first wall. <i>Nuclear Fusion</i> , 2013, 53, 093017.	3.5	38
65	Ion cyclotron range of frequency heating experiments on the large helical device and high energy ion behavior. <i>Physics of Plasmas</i> , 2001, 8, 2139-2147.	1.9	37
66	Superdiffusion and multifractal statistics of edge plasma turbulence in fusion devices. <i>Nuclear Fusion</i> , 2006, 46, S181-S191.	3.5	37
67	Observation of Helicity-Induced Alfvén Eigenmodes in Large-Helical-Device Plasmas Heated by Neutral-Beam Injection. <i>Physical Review Letters</i> , 2003, 91, 245001.	7.8	36
68	Density limit study focusing on the edge plasma parameters in LHD. <i>Nuclear Fusion</i> , 2008, 48, 015003.	3.5	36
69	Divertor simulation experiment and its future research plan making use of a large tandem mirror device. <i>Journal of Nuclear Materials</i> , 2011, 415, S996-S1000.	2.7	35
70	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2013, 53, 104015.	3.5	35
71	Plasma wall interaction in long-pulse helium discharge in LHD – Microscopic modification of the wall surface and its impact on particle balance and impurity generation. <i>Journal of Nuclear Materials</i> , 2015, 463, 91-98.	2.7	35
72	Plasma characteristics of long-pulse discharges heated by neutral beam injection in the Large Helical Device. <i>Plasma Physics and Controlled Fusion</i> , 2000, 42, 147-159.	2.1	34

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73	Plasma performance and impurity behaviour in long pulse discharges on LHD. Nuclear Fusion, 2003, 43, 219-227.	3.5	34
74	Two conceptual designs of helical fusion reactor FFHR-d1A based on ITER technologies and challenging ideas. Nuclear Fusion, 2017, 57, 086046.	3.5	34
75	First divertor physics studies in Wendelstein 7-X. Nuclear Fusion, 2019, 59, 096014.	3.5	34
76	Conceptual design of a liquid metal limiter/divertor system for the FFHR-d1. Fusion Engineering and Design, 2017, 125, 227-238.	1.9	33
77	Divertor transport study in the large helical device. Journal of Nuclear Materials, 2007, 363-365, 294-300.	2.7	32
78	Molecular activated recombination in divertor simulation plasma on GAMMA 10/PDX. Nuclear Materials and Energy, 2017, 12, 1004-1009.	1.3	32
79	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.	2.1	31
80	Initial experiments towards edge plasma control with a closed helical divertor in LHD. Nuclear Fusion, 2013, 53, 063014.	3.5	31
81	Extension and characteristics of an ECRH plasma in LHD. Plasma Physics and Controlled Fusion, 2005, 47, A81-A90.	2.1	30
82	Experiments on NBI plasmas in LHD. Plasma Physics and Controlled Fusion, 1999, 41, B157-B166.	2.1	29
83	Superdense core mode in the Large Helical Device with an internal diffusion barrier. Physics of Plasmas, 2007, 14, 056113.	1.9	29
84	Nonlinear interactions between high heat flux plasma and electron-emissive hot material surface. Physics of Plasmas, 1996, 3, 281-292.	1.9	28
85	Plasma confinement studies in LHD. Nuclear Fusion, 1999, 39, 1659-1666.	3.5	28
86	ECH system and its application to long pulse discharge in large helical device. Fusion Engineering and Design, 2001, 53, 525-536.	1.9	28
87	Repetitive pellet fuelling for high-density/steady-state operation on LHD. Nuclear Fusion, 2006, 46, 884-889.	3.5	28
88	Extended self-similarity of intermittent turbulence in edge magnetized plasmas. Nuclear Fusion, 2008, 48, 024014.	3.5	28
89	Wall Conditioning at the Starting Phase of LHD.. Journal of Plasma and Fusion Research, 1999, 75, 263-267.	0.4	27
90	High-density plasma with internal diffusion barrier in the Large Helical Device. Nuclear Fusion, 2009, 49, 085002.	3.5	27

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91	Design and installation of the closed helical divertor in LHD. Fusion Engineering and Design, 2010, 85, 940-945.	1.9	27
92	Enhancement of cross-field transport into the private region of detached-divertor in Large Helical Device. Physics of Plasmas, 2010, 17, 102509.	1.9	27
93	Characteristics of Radiating Collapse at the Density Limit in the Large Helical Device. Plasma and Fusion Research, 2006, 1, 045-045.	0.7	26
94	Statistical properties of edge plasma turbulence in the Large Helical Device. Plasma Physics and Controlled Fusion, 2008, 50, 095013.	2.1	26
95	Toroidally symmetric/asymmetric effect on the divertor flux due to neon/nitrogen seeding in LHD. Nuclear Materials and Energy, 2017, 12, 241-246.	1.3	26
96	The performance of ICRF heated plasmas in LHD. Nuclear Fusion, 2001, 41, 325-332.	3.5	25
97	Achievement of 10 keV Central Electron Temperatures by ECH in LHD.. Journal of Plasma and Fusion Research, 2002, 78, 99-100.	0.4	25
98	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
99	Microscopic modification of wall surface by glow discharge cleaning and its impact on vacuum properties of LHD. Nuclear Fusion, 2005, 45, 1544-1549.	3.5	25
100	Edge plasma control by local island divertor in LHD. Nuclear Fusion, 2005, 45, 837-842.	3.5	25
101	Recent results of divertor simulation research using an end-cell of a large tandem mirror device. Journal of Nuclear Materials, 2013, 438, S738-S741.	2.7	25
102	Recent results from deuterium experiments on the large helical device and their contribution to fusion reactor development. Nuclear Fusion, 2022, 62, 042019.	3.5	25
103	Overview of the Large Helical Device. Plasma Physics and Controlled Fusion, 2000, 42, 1165-1177.	2.1	23
104	Effect of Carbon Divertor Plates on Impurities, Zeff and Density Limit in Large Helical Device. Physica Scripta, 2001, T91, 48.	2.5	23
105	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
106	Plasma flow asymmetries in the natural helical divertor of $n_l=3$ torsatron and their relation to particle losses. Nuclear Fusion, 2002, 42, 192-201.	3.5	23
107	Comparative divertor-transport study for helical devices. Nuclear Fusion, 2009, 49, 095002.	3.5	23
108	Microscopic Deformation of Tungsten Surfaces by High Energy and High Flux Helium/Hydrogen Particle Bombardment with Short Pulses. Plasma and Fusion Research, 2010, 5, 012-012.	0.7	23

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109	3D effects of edge magnetic field configuration on divertor/scrape-off layer transport and optimization possibilities for a future reactor. Nuclear Fusion, 2015, 55, 104021.	3.5	23
110	Plasma detachment study of high density helium plasmas in the Pilot-PSI device. Nuclear Fusion, 2016, 56, 126006.	3.5	23
111	Compact and Powerful Plasma Generator. Japanese Journal of Applied Physics, 1990, 29, 2835-2836.	1.5	22
112	The relation between edge and divertor plasmas in the Large Helical Device. Journal of Nuclear Materials, 2003, 313-316, 852-856.	2.7	22
113	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
114	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
115	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
116	Studies of dust transport in long pulse plasma discharges in the large helical device. Nuclear Fusion, 2015, 55, 053014.	3.5	22
117	Global helium particle balance in LHD. Journal of Nuclear Materials, 2015, 463, 1080-1083.	2.7	22
118	Gas target experiments in high heat flux plasma of the TPD-I device. Journal of Nuclear Materials, 1995, 220-222, 279-283.	2.7	21
119	Particle balance in NBI heated long pulse discharges on LHD. Journal of Nuclear Materials, 2001, 290-293, 1040-1044.	2.7	21
120	Achievement of One Hour Discharge with ECH on LHD. Journal of Physics: Conference Series, 2005, 25, 189-197.	0.4	21
121	Long-pulse plasma discharge on the Large Helical Device. Nuclear Fusion, 2006, 46, S13-S21.	3.5	21
122	Development of impurity seeding and radiation enhancement in the helical divertor of LHD. Nuclear Fusion, 2015, 55, 083016.	3.5	21
123	Investigation of arcing on fiber-formed nanostructured tungsten by pulsed plasma during steady state plasma irradiation. Fusion Engineering and Design, 2016, 112, 156-161.	1.9	21
124	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
125	Material probe analysis for plasma facing surface in the large helical device. Nuclear Fusion, 2004, 44, 496-502.	3.5	20
126	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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127	Extension of the high-ion-temperature regime in the Large Helical Device. <i>Physics of Plasmas</i> , 2008, 15, 056111.	1.9	20
128	Tritium retention characteristics in dust particles in JET with ITER-like wall. <i>Nuclear Materials and Energy</i> , 2018, 17, 279-283.	1.3	20
129	Neutral Gas Compression in the Helical Divertor with a Baffle Structure in the LHD Heliotron. <i>Plasma and Fusion Research</i> , 2011, 6, 1202007-1202007.	0.7	20
130	Overview of long pulse operation in the Large Helical Device. <i>Nuclear Fusion</i> , 2000, 40, 1157-1166.	3.5	19
131	Behavior of helium gas in the LHD vacuum chamber. <i>Journal of Nuclear Materials</i> , 2003, 313-316, 297-301.	2.7	19
132	Progress of local island divertor experiment. <i>Fusion Engineering and Design</i> , 2003, 65, 475-481.	1.9	19
133	Overview and Future Plan of Helical Divertor Study in the Large Helical Device. <i>Fusion Science and Technology</i> , 2006, 50, 361-371.	1.1	19
134	H-mode-like transition and ELM-like bursts in LHD with thick ergodic layer. <i>Nuclear Fusion</i> , 2007, 47, 1033-1044.	3.5	19
135	Progress in the Integrated Development of the Helical System. <i>Fusion Science and Technology</i> , 2010, 58, 12-28.	1.1	19
136	In situ measurement of hydrogen isotope retention using a high heat flux plasma generator with ion beam analysis. <i>Physica Scripta</i> , 2011, T145, 014032.	2.5	19
137	Pellet fuelling requirements to allow self-burning on a helical-type fusion reactor. <i>Nuclear Fusion</i> , 2012, 52, 083006.	3.5	19
138	Observation of a reduced-turbulence regime with boron powder injection in a stellarator. <i>Nature Physics</i> , 2022, 18, 350-356.	16.7	19
139	Characteristics of Edge Magnetic Field Structure in LHD Heliotron. <i>Contributions To Plasma Physics</i> , 2000, 40, 266-270.	1.1	18
140	The first ICRF heating experiment in the large helical device. <i>Plasma Physics and Controlled Fusion</i> , 2000, 42, 265-274.	2.1	18
141	Divertor operation in stellarators: results from W7-AS and implications for future devices. <i>Fusion Engineering and Design</i> , 2003, 66-68, 49-58.	1.9	18
142	Experimental study on ion temperature behaviours in ECH, ICRF and NBI H ₂ , He and Ne discharges of the Large Helical Device. <i>Nuclear Fusion</i> , 2003, 43, 899-909.	3.5	18
143	Microscopic damage of materials exposed to glow discharge cleanings in LHD. <i>Journal of Nuclear Materials</i> , 2004, 329-333, 742-746.	2.7	18
144	Microscopic and macroscopic damage in metals exposed to LHD divertor plasmas. <i>Journal of Nuclear Materials</i> , 2005, 337-339, 937-941.	2.7	18

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145	Progress of divertor simulation research toward the realization of detached plasma using a large tandem mirror device. <i>Journal of Nuclear Materials</i> , 2015, 463, 537-540.	2.7	18
146	Synergistic effect of nitrogen and hydrogen seeding gases on plasma detachment in the GAMMA 10/PDX tandem mirror. <i>Nuclear Fusion</i> , 2019, 59, 066030.	3.5	18
147	Transition between Isotope-Mixing and Nonmixing States in Hydrogen-Deuterium Mixture Plasmas. <i>Physical Review Letters</i> , 2020, 124, 025002.	7.8	18
148	Overview of Progress in LHD Experiments. <i>Fusion Science and Technology</i> , 2006, 50, 136-145.	1.1	17
149	Retention properties of plasma particles in tungsten exposed to LHD divertor plasmas. <i>Journal of Nuclear Materials</i> , 2007, 363-365, 443-447.	2.7	17
150	Evaluation of radiation damages on the first-wall surface in LHD exposed to charge-exchanged helium particles. <i>Journal of Nuclear Materials</i> , 2009, 386-388, 173-176.	2.7	17
151	Flux Surface Mapping in LHD. <i>Fusion Science and Technology</i> , 2010, 58, 465-470.	1.1	17
152	Density Collapse Events Observed in the Large Helical Device. <i>Contributions To Plasma Physics</i> , 2010, 50, 552-557.	1.1	17
153	Analysis of radiation environment at divertor in helical reactor FFHR-d1. <i>Fusion Engineering and Design</i> , 2014, 89, 1939-1943.	1.9	17
154	Fabrication of divertor mock-up with ODS-Cu and W by the improved brazing technique. <i>Nuclear Fusion</i> , 2017, 57, 076009.	3.5	17
155	Erosion and deposition investigations on Wendelstein 7-X first wall components for the first operation phase in divertor configuration. <i>Fusion Engineering and Design</i> , 2019, 146, 242-245.	1.9	17
156	First impurity powder injection experiments in LHD. <i>Nuclear Materials and Energy</i> , 2020, 25, 100842.	1.3	17
157	LHD divertor experimental program. <i>Journal of Nuclear Materials</i> , 1999, 266-269, 302-306.	2.7	16
158	The effect of divertor tile material on radiation profiles in LHD. <i>Journal of Nuclear Materials</i> , 2001, 290-293, 930-934.	2.7	16
159	Modeling of wall recycling effects on the global particle balance in magnetic fusion devices. <i>Journal of Nuclear Materials</i> , 2001, 290-293, 423-427.	2.7	16
160	Role of core radiation during slow oscillations in LHD. <i>Nuclear Fusion</i> , 2001, 41, 519-525.	3.5	16
161	Experimental studies towards long pulse steady state operation in LHD. <i>Nuclear Fusion</i> , 2001, 41, 779-790.	3.5	16
162	Improved plasma performance on Large Helical Device. <i>Physics of Plasmas</i> , 2001, 8, 2002-2008.	1.9	16

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163	A study of high-energy ions produced by ICRF heating in LHD. Plasma Physics and Controlled Fusion, 2002, 44, 103-119.	2.1	16
164	Impurity behaviour in LHD long pulse discharges. Plasma Physics and Controlled Fusion, 2002, 44, 2121-2134.	2.1	16
165	Sawtooth Oscillation in Current-Carrying Plasma in the Large Helical Device. Physical Review Letters, 2003, 90, 205001.	7.8	16
166	Role of recycling flux in gas fuelling in the Large Helical Device. Nuclear Fusion, 2004, 44, 154-161.	3.5	16
167	Self-sustained detachment in the Large Helical Device. Nuclear Fusion, 2006, 46, 532-540.	3.5	16
168	10 years of engineering and physics achievements by the Large Helical Device project. Fusion Engineering and Design, 2009, 84, 186-193.	1.9	16
169	Formularization of the confinement enhancement factor as a function of the heating profile for FFHR-d1 core plasma design. Nuclear Fusion, 2012, 52, 123007.	3.5	16
170	Microstructural characterization of mixed-material deposition layer on the LHD divertor tiles by using nano-geological diagnosis. Journal of Nuclear Materials, 2013, 438, S818-S821.	2.7	16
171	Isotope effects on energy, particle transport and turbulence in electron cyclotron resonant heating plasma of the Large Helical Device. Nuclear Fusion, 2019, 59, 126040.	3.5	16
172	Impact of a resonant magnetic perturbation field on impurity radiation, divertor footprint, and core plasma transport in attached and detached plasmas in the Large Helical Device. Nuclear Fusion, 2019, 59, 096009.	3.5	16
173	Bifurcation phenomena in an emissive plate " simulated divertor plasma system. Journal of Nuclear Materials, 1992, 196-198, 448-451.	2.7	15
174	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
175	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
176	Analysis for surface probes of third experimental campaign in the large helical device. Journal of Nuclear Materials, 2003, 313-316, 167-171.	2.7	15
177	Three-dimensional proton trajectory analyses and simulation of neutral particle transport in an ICRF heated long pulse discharge on the large helical device. Journal of Nuclear Materials, 2005, 337-339, 186-190.	2.7	15
178	Material probe analysis of boronized wall in LHD. Fusion Engineering and Design, 2006, 81, 187-192.	1.9	15
179	Analysis on Relation Between Magnetic Structure and Bursty Fluctuation in SOL/Divertor Plasmas of LHD. Contributions To Plasma Physics, 2006, 46, 692-697.	1.1	15
180	Plasma wall interaction study in the large helical device. Fusion Engineering and Design, 2007, 82, 1621-1626.	1.9	15

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