Suguru Masuzaki

List of Publications by Citations

459 papers	7,798 citations	40 h-index	65 g-index
473 ext. papers	8,413 ext. citations	2.5 avg, IF	4.75 L-index

#	Paper	IF	Citations
459	Suppression of large edge-localized modes in high-confinement DIII-D plasmas with a stochastic magnetic boundary. *Physical Review Letters*, **2004**, 92, 235003	7.4	661
458	Overview of the Large Helical Device project. *Nuclear Fusion*, **1999**, 39, 1245-1256	3.3	230
457	Initial physics achievements of large helical device experiments. *Physics of Plasmas*, **1999**, 6, 1843-1850	2.1	170
456	Suppression of large edge localized modes with edge resonant magnetic fields in high confinement DIII-D plasmas. *Nuclear Fusion*, **2005**, 45, 595-607	3.3	154
455	Observation of stable superdense core plasmas in the large helical device. *Physical Review Letters*, **2006**, 97, 055002	7.4	126
454	The divertor plasma characteristics in the Large Helical Device. *Nuclear Fusion*, **2002**, 42, 750-758	3.3	119
453	Recent advances in the LHD experiment. *Nuclear Fusion*, **2003**, 43, 1674-1683	3.3	112
452	Overview of first Wendelstein 7-X high-performance operation. *Nuclear Fusion*, **2019**, 59, 112004	3.3	94
451	Configuration flexibility and extended regimes in Large Helical Device. *Plasma Physics and Controlled Fusion*, **2001**, 43, A55-A71	2	93
450	Extension of the operational regime of the LHD towards a deuterium experiment. *Nuclear Fusion*, **2017**, 57, 102023	3.3	84
449	Observation of the "self-healing" of an error field island in the large helical device. *Physical Review Letters*, **2001**, 87, 135002	7.4	66
448	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	62
447	The divertor program in stellarators. *Plasma Physics and Controlled Fusion*, **2002**, 44, 2365-2422	2	62
446	Recent progress in understanding the behavior of dust in fusion devices. *Plasma Physics and Controlled Fusion*, **2008**, 50, 124054	2	61
445	Edge thermal transport barrier In LHD discharges. *Physical Review Letters*, **2000**, 84, 103-6	7.4	60
444	Experimental study of particle transport and density fluctuations in LHD. *Nuclear Fusion*, **2006**, 46, 110-123	3.3	58
443	Formation of electron internal transport barrier and achievement of high ion temperature in Large Helical Device. *Physics of Plasmas*, **2003**, 10, 1788-1795	2.1	57

442	Impact of pellet injection on extension of the operational region in LHD. *Nuclear Fusion*, **2001**, 41, 381-386	3.3	57
441	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, 5297-300	7.4	57
440	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. *Nuclear Fusion*, **2001**, 41, 901-908	3.3	56
439	Exfoliation of the tungsten fibreform nanostructure by unipolar arcing in the LHD divertor plasma. *Nuclear Fusion*, **2011**, 51, 102001	3.3	54
438	Progress summary of LHD engineering design and construction. *Nuclear Fusion*, **2000**, 40, 599-609	3.3	53
437	Radial electric field and transport near the rational surface and the magnetic island in LHD. *Nuclear Fusion*, **2004**, 44, 290-295	3.3	51
436	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. *Nuclear Fusion*, **2004**, 44, 217-225	3.3	51
435	Helium I line intensity ratios in a plasma for the diagnostics of fusion edge plasmas. *Review of Scientific Instruments*, **1996**, 67, 3521-3529	1.7	51
434	Overview of LHD experiments. *Nuclear Fusion*, **2001**, 41, 1355-1367	3.3	50
433	Detachment stabilization with n/m=1/1 resonant magnetic perturbation field applied to the stochastic magnetic boundary of the Large Helical Devicea). *Physics of Plasmas*, **2010**, 17, 056111	2.1	49
432	Control of the radial electric field shear by modification of the magnetic field configuration in LHD. *Nuclear Fusion*, **2005**, 45, 391-398	3.3	49
431	Island dynamics in the large-helical-device plasmas. *Physical Review Letters*, **2002**, 88, 055005	7.4	48
430	Local island divertor experiments on LHD. *Journal of Nuclear Materials*, **2005**, 337-339, 154-160	3.3	47
429	Development of net-current free heliotron plasmas in the Large Helical Device. *Nuclear Fusion*, **2009**, 49, 104015	3.3	46
428	ICRF long-pulse discharge and interaction with a chamber wall and antennas in LHD. *Journal of Nuclear Materials*, **2007**, 363-365, 1323-1328	3.3	45
427	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	3.3	45
426	Recent progress of divertor simulation research using the GAMMA 10/PDX tandem mirror. *Nuclear Fusion*, **2017**, 57, 116033	3.3	43
425	Conceptual design activities and key issues on LHD-type reactor FFHR. *Fusion Engineering and Design*, **2006**, 81, 2703-2712	1.7	43

424	Extended steady-state and high-beta regimes of net-current free heliotron plasmas in the Large Helical Device. *Nuclear Fusion*, **2007**, 47, S668-S676	3.3	43
423	Ergodic edge region of large helical device. *Journal of Nuclear Materials*, **2003**, 313-316, 548-552	3.3	42
422	MHD characteristics in the high beta regime of the Large Helical Device. *Nuclear Fusion*, **2001**, 41, 1177-1183	3.3	42
421	Experimental study on plasma heat flow to plasma-facing materials. *Journal of Nuclear Materials*, **1995**, 223, 286-293	3.3	41
420	Optimization activities on design studies of LHD-type reactor FFHR. *Fusion Engineering and Design*, **2008**, 83, 1690-1695	1.7	40
419	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	2.1	40
418	Overview of steady state tokamak plasma experiments in TRIAM-1M. *Nuclear Fusion*, **2003**, 43, 1600-1609	3.3	39
417	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. *Nuclear Fusion*, **2003**, 43, 749-755	3.3	38
416	Helical divertor operation and erosion/deposition at target surfaces in LHD. *Journal of Nuclear Materials*, **2003**, 313-316, 1-10	3.3	38
415	Experimental studies of energetic-ion-driven MHD instabilities in Large Helical Device plasmas. *Nuclear Fusion*, **2005**, 45, 326-336	3.3	38
414	Observation of the low to high confinement transition in the large helical device. *Physics of Plasmas* , **2005**, 12, 020701	2.1	38
413	Ion and electron heating in ICRF heating experiments on LHD. *Nuclear Fusion*, **2001**, 41, 1021-1035	3.3	38
412	Ion heating and high-energy-particle production by ion-cyclotron heating in the large helical device. *Physical Review Letters*, **2000**, 85, 4530-3	7.4	38
411	Fluid features of the stochastic layer transport in LHD. *Nuclear Fusion*, **2008**, 48, 024012	3.3	37
410	Ion temperature measurement using an ion sensitive probe in the LHD divertor plasma. *Journal of Nuclear Materials*, **2003**, 313-316, 696-700	3.3	37
409	Magnetic field structure and confinement of energetic particles in the LHD. *Nuclear Fusion*, **2006**, 46, 291-305	3.3	36
408	Overview of confinement and MHD stability in the Large Helical Device. *Nuclear Fusion*, **2005**, 45, S255-S265	3.3	36
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406	Experimental study of impurity screening in the edge ergodic layer of the Large Helical Device using carbon emissions of CIII to CVI. *Physics of Plasmas*, **2009**, 16, 062502	2.1	35
405	Characterization and operational regime of high density plasmas with internal diffusion barrier observed in the Large Helical Device. *Plasma Physics and Controlled Fusion*, **2007**, 49, B487-B496	2	35
404	Effective screening of iron impurities in the ergodic layer of the Large Helical Device with a metallic first wall. *Nuclear Fusion*, **2013**, 53, 093017	3.3	34
403	Divertor simulation experiment and its future research plan making use of a large tandem mirror device. *Journal of Nuclear Materials*, **2011**, 415, S996-S1000	3.3	34
402	Superdiffusion and multifractal statistics of edge plasma turbulence in fusion devices. *Nuclear Fusion*, **2006**, 46, S181-S191	3.3	34
401	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	3.3	33
400	Density limit study focusing on the edge plasma parameters in LHD. *Nuclear Fusion*, **2008**, 48, 015003	3.3	33
399	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	1.7	32
398	First EMC3-EIRENE Simulations with Divertor Legs of LHD in Realistic Device Geometry. *Contributions To Plasma Physics*, **2014**, 54, 437-441	1.4	32
397	Impact of arcing on carbon and tungsten: from the observations in JT-60U, LHD and NAGDIS-II. *Nuclear Fusion*, **2013**, 53, 053013	3.3	32
396	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. *Nuclear Fusion*, **2013**, 53, 104015	3.3	32
395	Plasma performance and impurity behaviour in long pulse discharges on LHD. *Nuclear Fusion*, **2003**, 43, 219-227	3.3	32
394	Divertor transport study in the large helical device. *Journal of Nuclear Materials*, **2007**, 363-365, 294-300	3.3	31
393	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	31
392	Steady-state operation and high energy particle production of MeV energy in the Large Helical Device. *Nuclear Fusion*, **2007**, 47, 1250-1257	3.3	30
391	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	30
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389	Three-dimensional impurity transport modeling of neon-seeded and nitrogen-seeded LHD plasmas. *Plasma Physics and Controlled Fusion*, **2018**, 60, 084005	2	30

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378	Initial experiments towards edge plasma control with a closed helical divertor in LHD. *Nuclear Fusion*, **2013**, 53, 063014	3.3	25
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369	Enhancement of cross-field transport into the private region of detached-divertor in Large Helical Device. *Physics of Plasmas*, **2010**, 17, 102509	2.1	24
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362	Review of initial experimental results of the PSI studies in the large helical device. *Journal of Nuclear Materials*, **2001**, 290-293, 12-18	3.3	23
361	Molecular activated recombination in divertor simulation plasma on GAMMA 10/PDX. *Nuclear Materials and Energy*, **2017**, 12, 1004-1009	2.1	22
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359	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	3.3	22
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355	Achievement of One Hour Discharge with ECH on LHD. *Journal of Physics: Conference Series*, **2005**, 25, 189-197	0.3	21
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343	High-ion temperature experiments with negative-ion-based neutral beam injection heating in Large Helical Device. *Nuclear Fusion*, **2005**, 45, 565-573	3.3	19
342	Particle balance in NBI heated long pulse discharges on LHD. *Journal of Nuclear Materials*, **2001**, 290-293, 1040-1044	3.3	19
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323	Progress of divertor simulation research toward the realization of detached plasma using a large tandem mirror device. *Journal of Nuclear Materials*, **2015**, 463, 537-540	3.3	16
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319	Role of core radiation during slow oscillations in LHD. *Nuclear Fusion*, **2001**, 41, 519-525	3.3	16
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314	Flux Surface Mapping in LHD. *Fusion Science and Technology*, **2010**, 58, 465-470	1.1	15
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305	Tritium retention characteristics in dust particles in JET with ITER-like wall. *Nuclear Materials and Energy*, **2018**, 17, 279-283	2.1	15
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