

Lothar Schmitz

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,502
citations

304743

22
h-index

315739

38
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39
all docs

39
docs citations

39
times ranked

1008
citing authors

#	ARTICLE	IF	CITATIONS
1	DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy. Nuclear Fusion, 2022, 62, 042024.	3.5	11
2	Diverted negative triangularity plasmas on DIII-D: the benefit of high confinement without the liability of an edge pedestal. Nuclear Fusion, 2021, 61, 116010.	3.5	20
3	Overview of C-2W: high temperature, steady-state beam-driven field-reversed configuration plasmas. Nuclear Fusion, 2021, 61, 106039.	3.5	26
4	Ballooning instability preventing the H-mode access in plasmas with negative triangularity shape on the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2021, 63, 105006.	2.1	25
5	Effects of radial transport on divertor power and particle flux widths under different operational regimes in EAST. Nuclear Fusion, 2021, 61, 106015.	3.5	8
6	Time-dependent probability density functions and information diagnostics in forward and backward processes in a stochastic prey-predator model of fusion plasmas. Physics of Plasmas, 2020, 27, .	1.9	14
7	Effect of magnetic perturbations on turbulence-flow dynamics at the L-H transition on DIII-D. Physics of Plasmas, 2020, 27, 062507.	1.9	18
8	Safety factor and turbulence dynamics dependence of the L-H power threshold on DIII-D. Physics of Plasmas, 2019, 26, 062507.	1.9	3
9	L-H transition trigger physics in ITER-similar plasmas with applied magnetic perturbations. Nuclear Fusion, 2019, 59, 126010.	3.5	20
10	Gyrokinetic GENE simulations of DIII-D near-edge L-mode plasmas. Physics of Plasmas, 2019, 26, .	1.9	11
11	Combination Doppler backscattering/cross-polarization scattering diagnostic for the C-2W field-reversed configuration. Review of Scientific Instruments, 2018, 89, 10H116.	1.3	3
12	The role of turbulence-flow interactions in L- to H-mode transition dynamics: recent progress. Nuclear Fusion, 2017, 57, 025003.	3.5	63
13	Suppressed ion-scale turbulence in a hot high- β^2 plasma. Nature Communications, 2016, 7, 13860.	12.8	31
14	Effects of resonant magnetic perturbations on turbulence and transport in DIII-D L-mode plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 014003.	2.1	16
15	Evolution of $E \times B$ shear and coherent fluctuations prior to H-L transitions in DIII-D and control strategies for H-L transitions. Physics of Plasmas, 2015, 22, .	1.9	5
16	Improved Confinement of C-2 Field-Reversed Configuration Plasmas. Fusion Science and Technology, 2015, 68, 44-49.	1.1	7
17	Multi-channel Doppler backscattering measurements in the C-2 field reversed configuration. Review of Scientific Instruments, 2014, 85, 11D840.	1.3	14
18	The role of zonal flows and predator-prey oscillations in triggering the formation of edge and core transport barriers. Nuclear Fusion, 2014, 54, 073012.	3.5	27

#	ARTICLE	IF	CITATIONS
19	Validation studies of gyrofluid and gyrokinetic predictions of transport and turbulence stiffness using the DIII-D tokamak. Nuclear Fusion, 2013, 53, 083027.	3.5	22
20	Multi-field characteristics and eigenmode spatial structure of geodesic acoustic modes in DIII-D L-mode plasmas. Physics of Plasmas, 2013, 20, .	1.9	42
21	Observation of a Critical Gradient Threshold for Electron Temperature Fluctuations in the DIII-D Tokamak. Physical Review Letters, 2013, 110, 045003.	7.8	43
22	A High Performance Field-Reversed Configuration Regime in the C-2 Device. Fusion Science and Technology, 2013, 63, 139-142.	1.1	3
23	Spatio-temporal evolution of the Lâ€™â€™H transition. Physics of Plasmas, 2012, 19, .	1.9	117
24	Progress in GYRO validation studies of DIII-D H-mode plasmas. Nuclear Fusion, 2012, 52, 114007.	3.5	33
25	Role of Zonal Flow Predator-Prey Oscillations in Triggering the Transition to H-Mode Confinement. Physical Review Letters, 2012, 108, 155002.	7.8	245
26	A new high performance field reversed configuration operating regime in the C-2 device. Physics of Plasmas, 2012, 19, .	1.9	42
27	New glance at resistive ballooning modes at the edge of tokamak plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 115003.	2.1	33
28	Experimental investigation of geodesic acoustic mode spatial structure, intermittency, and interaction with turbulence in the DIII-D tokamak. Physics of Plasmas, 2012, 19, .	1.9	66
29	Formation of a long-lived hot field reversed configuration by dynamically merging two colliding high- I^2 compact toroids. Physics of Plasmas, 2011, 18, .	1.9	56
30	Advances in validating gyrokinetic turbulence models against L- and H-mode plasmas. Physics of Plasmas, 2011, 18, 056113.	1.9	69
31	L-mode validation studies of gyrokinetic turbulence simulations via multiscale and multifield turbulence measurements on the DIII-D tokamak. Nuclear Fusion, 2011, 51, 063022.	3.5	92
32	Multi-field/multi-scale turbulence response to electron cyclotron heating of DIII-D ohmic plasmas. Physics of Plasmas, 2011, 18, 082504.	1.9	8
33	New plasma measurements with a multichannel millimeter-wave fluctuation diagnostic system in the DIII-D tokamak (invited). Review of Scientific Instruments, 2010, 81, 10D907.	1.3	38
34	Simultaneous measurement of core electron temperature and density fluctuations during electron cyclotron heating on DIII-D. Physics of Plasmas, 2010, 17, .	1.9	26
35	Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. Physics of Plasmas, 2009, 16, .	1.9	119
36	Dependence of the L- to H-mode power threshold on toroidal rotation and the link to edge turbulence dynamics. Nuclear Fusion, 2009, 49, 115016.	3.5	70

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37	Observation of Reduced Electron-Temperature Fluctuations in the Core of H-Mode Plasmas. Physical Review Letters, 2008, 100, 035002.	7.8	20
38	Detection of zonal flow spectra in DIII-D by a dual-channel Doppler backscattering system. Review of Scientific Instruments, 2008, 79, 10F113.	1.3	36
39	Intermittent turbulence and turbulent structures in LAPD and ET. AIP Conference Proceedings, 2006, , .	0.4	0