

Sergei V Lebedev

List of Publications by Year in descending order

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57
papers

1,190
citations

471509

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58
all docs

58
docs citations

58
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of internal transport barrier physics for steady-state operation of tokamaks. Nuclear Fusion, 2004, 44, R1-R49.	3.5	314
2	Radial current in a tokamak caused by a biased electrode. Nuclear Fusion, 1992, 32, 271-277.	3.5	94
3	A two-term model of the confinement in Elmy H-modes using the global confinement and pedestal databases. Nuclear Fusion, 2003, 43, 670-674.	3.5	73
4	Recent progress on the development and analysis of the ITPA global H-mode confinement database. Nuclear Fusion, 2007, 47, 147-174.	3.5	55
5	Scaling of the energy confinement time with \hat{I}^2 and collisionality approaching ITER conditions. Nuclear Fusion, 2005, 45, 1078-1084.	3.5	49
6	H mode in the TUMAN-3 tokamak triggered by edge plasma perturbations*. Physics of Fluids B, 1993, 5, 2420-2427.	1.7	48
7	Study of plasma fluctuations in the Tuman-3m tokamak using microwave reflectometry with an obliquely incident probing beam. Plasma Physics Reports, 2000, 26, 813-819.	0.9	46
8	Ion cyclotron emission in NBI-heated plasmas in the TUMAN-3M tokamak. Nuclear Fusion, 2018, 58, 082003.	3.5	36
9	Boronization of Russian tokamaks from carborane precursors. Journal of Nuclear Materials, 1995, 220-222, 730-735.	2.7	32
10	Status of and prospects for advanced tokamak regimes from multi-machine comparisons using the International Tokamak Physics Activity database. Plasma Physics and Controlled Fusion, 2004, 46, A19-A34.	2.1	31
11	Development of a two-term model for the confinement in ELMy H-modes using the global confinement and pedestal databases. Plasma Physics and Controlled Fusion, 2002, 44, A429-A435.	2.1	28
12	Radial electric field evolution in the vicinity of a rotating magnetic island in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2006, 48, A85-A91.	2.1	27
13	Physics of GAM-initiated H transition in a tokamak. Plasma Physics and Controlled Fusion, 2017, 59, 014037.	2.1	25
14	Plasma rotation evolution near the peripheral transport barrier in the presence of low-frequency MHD bursts in TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2006, 48, A101-A107.	2.1	24
15	Increased understanding of the dynamics and transport in ITB plasmas from multi-machine comparisons. Nuclear Fusion, 2003, 43, 708-715.	3.5	23
16	H-mode studies on TUMAN-3 and TUMAN-3M. Plasma Physics and Controlled Fusion, 1996, 38, 1103-1115.	2.1	22
17	GAM observation in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2016, 58, 045006.	2.1	18
18	Ohmic H-mode studies in TUMAN-3. Plasma Physics and Controlled Fusion, 1994, 36, B289-B299.	2.1	17

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19	Fusion Research in Ioffe Institute. Nuclear Fusion, 2015, 55, 104013.	3.5	17
20	Electron Density Modulation in Magnetic Islands in the TUMAN-3M Tokamak. Plasma Physics Reports, 2005, 31, 803.	0.9	16
21	The role of aspect ratio and beta in H-mode confinement scalings. Plasma Physics and Controlled Fusion, 2006, 48, A429-A438.	2.1	15
22	Magnetic measurements of plasma configuration parameters in a tokamak. Nuclear Fusion, 1986, 26, 369-374.	3.5	12
23	Evolution of geodesic acoustic mode in ohmic H-mode in TUMAN-3M tokamak. Technical Physics Letters, 2012, 38, 268-271.	0.7	12
24	Tokamak research at the Ioffe Institute. Nuclear Fusion, 2019, 59, 112022.	3.5	12
25	Counter-NBI assisted LH transition in low density plasmas in the TUMAN-3M. Nuclear Fusion, 2009, 49, 085029.	3.5	11
26	Study of runaway electrons in TUMAN-3M tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 075009.	2.1	11
27	Dynamics of the LH-transition in TUMAN-3M tokamak in the scenarios with cryogenic pellet injection. Nuclear Fusion, 2018, 58, 112007.	3.5	11
28	Preparation of neutral beam injection experiments on Globus-M and TUMAN-3M tokamaks. Plasma Devices and Operations, 2003, 11, 211-218.	0.6	10
29	Heavy ion beam probe development for the plasma potential measurement on the TUMAN-3M tokamak. Review of Scientific Instruments, 2004, 75, 3517-3519.	1.3	10
30	30th EPS Conference on Controlled Fusion and Plasma Physics. Plasma Physics and Controlled Fusion, 2003, 45, .	2.1	9
31	Alfvén oscillations in ohmic discharges with runaway electrons in the TUMAN-3M tokamak. Technical Physics Letters, 2016, 42, 1167-1169.	0.7	8
32	New features of the energy confinement from TUMAN-3 ohmic H-mode experiments. Plasma Physics and Controlled Fusion, 1994, 36, A165-A170.	2.1	7
33	Confinement of energetic ions in a tokamak plasma at magnetic field in the range of 0.7–1.0 T. Technical Physics Letters, 2013, 39, 290-293.	0.7	7
34	Observation of ion cyclotron emission from ohmically and NBI heated plasmas in TUMAN-3M tokamak. EPJ Web of Conferences, 2017, 149, 03010.	0.3	6
35	Determination of the Alfvén Oscillation Location in the TUMAN-3M Tokamak Plasma. Technical Physics Letters, 2018, 44, 108-111.	0.7	6
36	Experimental study of the β -limit in ohmic H-mode in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 1998, 40, 741-746.	2.1	5

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37	Optimization of geometry of heating neutral beam input into the TUMAN-3M tokamak. Technical Physics Letters, 2013, 39, 1019-1022.	0.7	5
38	Study of internal transport barriers in the initial phase of Ohmic discharges in TUMAN-3M. Plasma Physics and Controlled Fusion, 2004, 46, A51-A59.	2.1	4
39	Radial electric field evolution in various operational modes in the TUMAN-3M tokamak. Journal of Physics: Conference Series, 2008, 123, 012010.	0.4	4
40	Study of neutron generation in the compact tokamak TUMAN-3M in support of a tokamak-based fusion neutron source. Nuclear Fusion, 2017, 57, 126005.	3.5	4
41	Gyrokinetic simulation of transport reduction by pellet injection in TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 085010.	2.1	4
42	Study of impurity behaviour in tokamak near-wall region by laser-induced fluorescence. Nuclear Fusion, 1985, 25, 931-938.	3.5	3
43	Experiments on ICR heating in Tokamak 'TUMAN-3'. Plasma Physics and Controlled Fusion, 1989, 31, 3-9.	2.1	3
44	Resistive loss compensation in the power supply system of the toroidal field winding in the TUMAN-3M tokamak. Instruments and Experimental Techniques, 2011, 54, 808-812.	0.5	3
45	Bicoherence analysis of geodesic acoustic modes in the Tuman-3M and Globus-M Tokamaks. Technical Physics Letters, 2015, 41, 366-369.	0.7	3
46	Study of plasma fluctuations in the TUMAN-3M tokamak during various types of L-H transitions. Plasma Physics Reports, 2002, 28, 103-110.	0.9	2
47	Mach probe measurements of peripheral plasma rotation evolution during L-H transition and ITB decay in the TUMAN-3M tokamak. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 664-666.	1.6	2
48	The influence of plasma horizontal position on the neutron rate and flux of neutral atoms in injection heating experiment on the TUMAN-3M tokamak. Technical Physics Letters, 2013, 39, 1012-1015.	0.7	2
49	Formation of an internal transport barrier in the ohmic H-mode in the TUMAN-3M tokamak. Plasma Physics Reports, 2000, 26, 191-198.	0.9	1
50	Development of Pellet Technologies for Plasma Fueling. Fusion Science and Technology, 2005, 47, 221-223.	1.1	1
51	Confinement bifurcation initiated by plasma current profile and toroidal electric field perturbations in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2011, 53, 035011.	2.1	1
52	Possibility of plasma position detection by means of peripheral plasma potential measurements in tokamak. Technical Physics Letters, 2016, 42, 179-181.	0.7	1
53	Combined ICRF heating and adiabatic compression in TUMAN-3. Plasma Physics and Controlled Fusion, 1988, 30, 1549-1558.	2.1	0
54	Influence of transient behavior on the determination of the energy confinement time in a tokamak. Technical Physics Letters, 1997, 23, 778-780.	0.7	0

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55	Dependence of energy confinement time on toroidal magnetic field in the TUMAN-3M tokamak. Technical Physics Letters, 2012, 38, 320-323.	0.7	0
56	Radial current in tokamak during neutral beam injection. Technical Physics Letters, 2013, 39, 220-222.	0.7	0
57	Editorial for special issue on H-mode physics and transport barriers. Nuclear Fusion, 2018, 58, 110201.	3.5	0