

Sergei V Lebedev

List of Publications by Year in descending order

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docs citations

58
times ranked

1034
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Tokamak research at the Ioffe Institute. Nuclear Fusion, 2019, 59, 112022. | 3.5 | 12 |
| 2 | Study of runaway electrons in TUMAN-3M tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 075009. | 2.1 | 11 |
| 3 | Editorial for special issue on H-mode physics and transport barriers. Nuclear Fusion, 2018, 58, 110201. | 3.5 | 0 |
| 4 | Dynamics of the LH-transition in TUMAN-3M tokamak in the scenarios with cryogenic pellet injection. Nuclear Fusion, 2018, 58, 112007. | 3.5 | 11 |
| 5 | Gyrokinetic simulation of transport reduction by pellet injection in TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 085010. | 2.1 | 4 |
| 6 | Determination of the Alfvén Oscillation Location in the TUMAN-3M Tokamak Plasma. Technical Physics Letters, 2018, 44, 108-111. | 0.7 | 6 |
| 7 | Ion cyclotron emission in NBI-heated plasmas in the TUMAN-3M tokamak. Nuclear Fusion, 2018, 58, 082003. | 3.5 | 36 |
| 8 | Physics of GAM-initiated L-H transition in a tokamak. Plasma Physics and Controlled Fusion, 2017, 59, 014037. | 2.1 | 25 |
| 9 | 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 |
| 10 | 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 |
| 11 | Possibility of plasma position detection by means of peripheral plasma potential measurements in tokamak. Technical Physics Letters, 2016, 42, 179-181. | 0.7 | 1 |
| 12 | Alfvén oscillations in ohmic discharges with runaway electrons in the TUMAN-3M tokamak. Technical Physics Letters, 2016, 42, 1167-1169. | 0.7 | 8 |
| 13 | GAM observation in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 2016, 58, 045006. | 2.1 | 18 |
| 14 | Bicoherence analysis of geodesic acoustic modes in the Tuman-3M and Globus-M Tokamaks. Technical Physics Letters, 2015, 41, 366-369. | 0.7 | 3 |
| 15 | Fusion Research in Ioffe Institute. Nuclear Fusion, 2015, 55, 104013. | 3.5 | 17 |
| 16 | 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 |
| 17 | Radial current in tokamak during neutral beam injection. Technical Physics Letters, 2013, 39, 220-222. | 0.7 | 0 |
| 18 | Optimization of geometry of heating neutral beam input into the TUMAN-3M tokamak. Technical Physics Letters, 2013, 39, 1019-1022. | 0.7 | 5 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Evolution of geodesic acoustic mode in ohmic H-mode in TUMAN-3M tokamak. Technical Physics Letters, 2012, 38, 268-271. | 0.7 | 12 |
| 21 | Dependence of energy confinement time on toroidal magnetic field in the TUMAN-3M tokamak. Technical Physics Letters, 2012, 38, 320-323. | 0.7 | 0 |
| 22 | 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 |
| 23 | 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 |
| 24 | Mach probe measurements of peripheral plasma rotation evolution during L α 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 |
| 25 | Counter-NBI assisted LH transition in low density plasmas in the TUMAN-3M. Nuclear Fusion, 2009, 49, 085029. | 3.5 | 11 |
| 26 | Radial electric field evolution in various operational modes in the TUMAN-3M tokamak. Journal of Physics: Conference Series, 2008, 123, 012010. | 0.4 | 4 |
| 27 | Recent progress on the development and analysis of the ITPA global H-mode confinement database. Nuclear Fusion, 2007, 47, 147-174. | 3.5 | 55 |
| 28 | 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 |
| 29 | 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 |
| 30 | The role of aspect ratio and beta in H-mode confinement scalings. Plasma Physics and Controlled Fusion, 2006, 48, A429-A438. | 2.1 | 15 |
| 31 | Development of Pellet Technologies for Plasma Fueling. Fusion Science and Technology, 2005, 47, 221-223. | 1.1 | 1 |
| 32 | Electron Density Modulation in Magnetic Islands in the TUMAN-3M Tokamak. Plasma Physics Reports, 2005, 31, 803. | 0.9 | 16 |
| 33 | Scaling of the energy confinement time with \hat{I}^2 and collisionality approaching ITER conditions. Nuclear Fusion, 2005, 45, 1078-1084. | 3.5 | 49 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | A review of internal transport barrier physics for steady-state operation of tokamaks. Nuclear Fusion, 2004, 44, R1-R49. | 3.5 | 314 |
| 38 | 30th EPS Conference on Controlled Fusion and Plasma Physics. Plasma Physics and Controlled Fusion, 2003, 45, . | 2.1 | 9 |
| 39 | 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 |
| 40 | Increased understanding of the dynamics and transport in ITB plasmas from multi-machine comparisons. Nuclear Fusion, 2003, 43, 708-715. | 3.5 | 23 |
| 41 | Preparation of neutral beam injection experiments on Globus-M and TUMAN-3M tokamaks. Plasma Devices and Operations, 2003, 11, 211-218. | 0.6 | 10 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Experimental study of the -limit in ohmic H-mode in the TUMAN-3M tokamak. Plasma Physics and Controlled Fusion, 1998, 40, 741-746. | 2.1 | 5 |
| 47 | 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 |
| 48 | H-mode studies on TUMAN-3 and TUMAN-3M. Plasma Physics and Controlled Fusion, 1996, 38, 1103-1115. | 2.1 | 22 |
| 49 | Boronization of Russian tokamaks from carborane precursors. Journal of Nuclear Materials, 1995, 220-222, 730-735. | 2.7 | 32 |
| 50 | Ohmic H-mode studies in TUMAN-3. Plasma Physics and Controlled Fusion, 1994, 36, B289-B299. | 2.1 | 17 |
| 51 | 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 |
| 52 | H mode in the TUMAN-3 tokamak triggered by edge plasma perturbations*. Physics of Fluids B, 1993, 5, 2420-2427. | 1.7 | 48 |
| 53 | Radial current in a tokamak caused by a biased electrode. Nuclear Fusion, 1992, 32, 271-277. | 3.5 | 94 |
| 54 | Experiments on ICR heating in Tokamak 'TUMAN-3'. Plasma Physics and Controlled Fusion, 1989, 31, 3-9. | 2.1 | 3 |

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|----|---|-----|-----------|
| 55 | Combined ICRF heating and adiabatic compression in TUMAN-3. Plasma Physics and Controlled Fusion, 1988, 30, 1549-1558. | 2.1 | 0 |
| 56 | Magnetic measurements of plasma configuration parameters in a tokamak. Nuclear Fusion, 1986, 26, 369-374. | 3.5 | 12 |
| 57 | Study of impurity behaviour in tokamak near-wall region by laser-induced fluorescence. Nuclear Fusion, 1985, 25, 931-938. | 3.5 | 3 |