

D R Mikkelsen

List of Publications by Year in descending order

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58
papers

1,851
citations

218677

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265206

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59
docs citations

59
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification of GENE and GYRO with L-mode and I-mode plasmas in Alcator C-Mod. Physics of Plasmas, 2018, 25, 042505.	1.9	7
2	Linear gyrokinetic simulations of microinstabilities within the pedestal region of H-mode NSTX discharges in a highly shaped geometry. Physics of Plasmas, 2016, 23, 062520.	1.9	12
3	Quantitative comparison of electron temperature fluctuations to nonlinear gyrokinetic simulations in C-Mod Ohmic L-mode discharges. Physics of Plasmas, 2016, 23, .	1.9	16
4	Isotope effects on particle transport in the Compact Helical System. Plasma Physics and Controlled Fusion, 2016, 58, 055011.	2.1	15
5	Multispecies density peaking in gyrokinetic turbulence simulations of low collisionality Alcator C-Mod plasmas. Physics of Plasmas, 2015, 22, .	1.9	12
6	Nonlinear gyrokinetic simulations of the I-mode high confinement regime and comparisons with	1.9	16
7	20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, .	1.9	88
8	Verification of gyrokinetic microstability codes with an LHD configuration. Physics of Plasmas, 2014, 21, 112305.	1.9	4
9	Comparing linear ion-temperature-gradient-driven mode stability of the National Compact Stellarator Experiment and a shaped tokamak. Physics of Plasmas, 2013, 20, .	1.9	11
10	Multi-channel transport experiments at Alcator C-Mod and comparison with gyrokinetic simulations. Physics of Plasmas, 2013, 20, .	1.9	48
11	Changes in core electron temperature fluctuations across the ohmic energy confinement transition in Alcator C-Mod plasmas. Nuclear Fusion, 2013, 53, 083010.	3.5	37
12	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	3.5	13
13	Effects of Resonant Magnetic Perturbation on Particle Transport in LHD. Plasma and Fusion Research, 2013, 8, 2402141-2402141.	0.7	2
14	Gyrokinetic studies of the effect of $\tilde{\omega}^2$ on drift-wave stability in the National Compact Stellarator Experiment. Physics of Plasmas, 2012, 19, 122306.	1.9	16
15	Simulation of microtearing turbulence in national spherical torus experiment. Physics of Plasmas, 2012, 19, 056119.	1.9	53
16	Measurement of plasma current dependent changes in impurity transport and comparison with nonlinear gyrokinetic simulation. Physics of Plasmas, 2012, 19, .	1.9	24
17	Suppressing electron turbulence and triggering internal transport barriers with reversed magnetic shear in the National Spherical Torus Experiment. Physics of Plasmas, 2012, 19, .	1.9	20
18	Production of internal transport barriers via self-generated mean flows in Alcator C-Mod. Physics of Plasmas, 2012, 19, 056113.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Feasibility study for a correlation electron cyclotron emission turbulence diagnostic based on nonlinear gyrokinetic simulations. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 115003.	2.1	7
20	L-mode validation studies of gyrokinetic turbulence simulations via multiscale and multifield turbulence measurements on the DIII-D tokamak. <i>Nuclear Fusion</i> , 2011, 51, 063022.	3.5	92
21	Simulating gyrokinetic microinstabilities in stellarator geometry with GS2. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	23
22	Studies of turbulence and transport in Alcator C-Mod H-mode plasmas with phase contrast imaging and comparisons with GYRO. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	48
23	Overview of the Alcator C-Mod Research Program. <i>Nuclear Fusion</i> , 2009, 49, 104014.	3.5	29
24	Studies of turbulence and transport in Alcator C-Mod ohmic plasmas with phase contrast imaging and comparisons with gyrokinetic simulations. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 065006.	2.1	34
25	Verification and application of numerically generated magnetic coordinate systems in gyrokinetics. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	8
26	A quantitative account of electron energy transport in a National Spherical Tokamak Experiment plasma. <i>Physics of Plasmas</i> , 2008, 15, 056108.	1.9	29
27	Validation in fusion research: Towards guidelines and best practices. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	92
28	Dimits Shift in Realistic Gyrokinetic Plasma-Turbulence Simulations. <i>Physical Review Letters</i> , 2008, 101, 135003.	7.8	30
29	Transport with reversed shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2007, 14, 056119.	1.9	37
30	Confinement and Transport Research in Alcator C-Mod. <i>Fusion Science and Technology</i> , 2007, 51, 266-287.	1.1	40
31	Assessment of Transport in NCSX. <i>Fusion Science and Technology</i> , 2007, 51, 166-180.	1.1	6
32	Effect of plasma shaping on performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056122.	1.9	33
33	Fusion Engineering and Plasma Science Conditions of Spherical Torus Component Test Facility. <i>Fusion Science and Technology</i> , 2005, 47, 370-383.	1.1	2
34	Spherical Tokamak Plasma Science and Fusion Energy Component Testing. <i>IEEE Transactions on Fundamentals and Materials</i> , 2005, 125, 857-867.	0.2	1
35	Characterization of core and edge turbulence in L- and enhanced D \pm H-mode Alcator C-Mod plasmas. <i>Physics of Plasmas</i> , 2005, 12, 052512.	1.9	13
36	Overview of recent Alcator C-Mod research. <i>Nuclear Fusion</i> , 2003, 43, 1610-1618.	3.5	7

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37	Recent advances in the design of quasiaxisymmetric stellarator plasma configurations. <i>Physics of Plasmas</i> , 2001, 8, 2083-2094.	1.9	46
38	Synthesis of Ozone at Atmospheric Pressure by a Quenched Induction-Coupled Plasma Torch. <i>Plasma Chemistry and Plasma Processing</i> , 1999, 19, 191-216.	2.4	11
39	Tests of local transport theory and reduced wall impurity influx with highly radiative plasmas in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 877-884.	1.9	45
40	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
41	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
42	Energetic particle orbits in the National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 1997, 4, 3667-3675.	1.9	34
43	Deuterium-tritium simulations of the enhanced reversed shear mode in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1316-1325.	1.9	0
44	Enhancement of Tokamak Fusion Test Reactor performance by lithium conditioning. <i>Physics of Plasmas</i> , 1996, 3, 1892-1897.	1.9	181
45	Deuterium-tritium experiments on TFTR. <i>AIP Conference Proceedings</i> , 1995, , .	0.4	0
46	Enhanced performance of deuterium-tritium fueled supershots using extensive lithium conditioning in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1995, 2, 4252-4256.	1.9	36
47	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1995, 2, 2176-2188.	1.9	89
48	Preparations for deuterium-tritium experiments on the Tokamak Fusion Test Reactor*. <i>Physics of Plasmas</i> , 1994, 1, 1560-1567.	1.9	7
49	Helium, iron, and electron particle transport and energy transport studies on the Tokamak Fusion Test Reactor. <i>Physics of Fluids B</i> , 1993, 5, 2215-2228.	1.7	49
50	Status and Plans for TFTR. <i>Fusion Science and Technology</i> , 1992, 21, 1324-1331.	0.6	23
51	High-Q plasmas in the TFTR tokamak. <i>Physics of Fluids B</i> , 1991, 3, 2308-2314.	1.7	17
52	High-beta operation and magnetohydrodynamic activity on the TFTR tokamak. <i>Physics of Fluids B</i> , 1990, 2, 1287-1290.	1.7	35
53	Correlations of heat and momentum transport in the TFTR tokamak. <i>Physics of Fluids B</i> , 1990, 2, 1300-1305.	1.7	47
54	Current relaxation time scales in toroidal plasmas. <i>Physics of Fluids B</i> , 1989, 1, 333-339.	1.7	74

#	ARTICLE	IF	CITATIONS
55	Applications and development requirements for multi-MeV light atom beams. AIP Conference Proceedings, 1984, , .	0.4	0
56	Alpha particle simulation and diagnostics using 3He^{++} minority ICRF heating. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 206-210.	2.1	6
57	Feasibility of multi-MeV neutral beams of light atoms for heating and current drive in magnetically confined plasmas. Journal of Vacuum Science and Technology, 1982, 20, 1201-1204.	1.9	2
58	Techniques for measuring the alpha-particle distribution in magnetically confined plasmas. Journal of Fusion Energy, 1981, 1, 129-142.	1.2	88