

# D R Mikkelsen

## List of Publications by Year in descending order

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58  
papers

1,851  
citations

218677

26  
h-index

265206

42  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Tokamak Fusion Test Reactor performance by lithium conditioning. <i>Physics of Plasmas</i> , 1996, 3, 1892-1897.	1.9	181
2	Validation in fusion research: Towards guidelines and best practices. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	92
3	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
4	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
5	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1995, 2, 2176-2188.	1.9	89
6	Techniques for measuring the alpha-particle distribution in magnetically confined plasmas. <i>Journal of Fusion Energy</i> , 1981, 1, 129-142.	1.2	88
7	20 years of research on the Alcator C-Mod tokamak. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	88
8	Current relaxation time scales in toroidal plasmas. <i>Physics of Fluids B</i> , 1989, 1, 333-339.	1.7	74
9	Simulation of microtearing turbulence in national spherical torus experiment. <i>Physics of Plasmas</i> , 2012, 19, 056119.	1.9	53
10	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
11	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
12	Multi-channel transport experiments at Alcator C-Mod and comparison with gyrokinetic simulations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	48
13	Correlations of heat and momentum transport in the TFTR tokamak. <i>Physics of Fluids B</i> , 1990, 2, 1300-1305.	1.7	47
14	Recent advances in the design of quasiaxisymmetric stellarator plasma configurations. <i>Physics of Plasmas</i> , 2001, 8, 2083-2094.	1.9	46
15	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
16	Confinement and Transport Research in Alcator C-Mod. <i>Fusion Science and Technology</i> , 2007, 51, 266-287.	1.1	40
17	Transport with reversed shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2007, 14, 056119.	1.9	37
18	Changes in core electron temperature fluctuations across the ohmic energy confinement transition in Alcator C-Mod plasmas. <i>Nuclear Fusion</i> , 2013, 53, 083010.	3.5	37

#	ARTICLE	IF	CITATIONS
19	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
20	High-beta operation and magnetohydrodynamic activity on the TFTR tokamak. <i>Physics of Fluids B</i> , 1990, 2, 1287-1290.	1.7	35
21	Energetic particle orbits in the National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 1997, 4, 3667-3675.	1.9	34
22	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
23	Effect of plasma shaping on performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056122.	1.9	33
24	Dimits Shift in Realistic Gyrokinetic Plasma-Turbulence Simulations. <i>Physical Review Letters</i> , 2008, 101, 135003.	7.8	30
25	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
26	Overview of the Alcator C-Mod Research Program. <i>Nuclear Fusion</i> , 2009, 49, 104014.	3.5	29
27	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
28	Measurement of plasma current dependent changes in impurity transport and comparison with nonlinear gyrokinetic simulation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	24
29	Status and Plans for TFTR. <i>Fusion Science and Technology</i> , 1992, 21, 1324-1331.	0.6	23
30	Simulating gyrokinetic microinstabilities in stellarator geometry with GS2. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	23
31	Suppressing electron turbulence and triggering internal transport barriers with reversed magnetic shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	20
32	Production of internal transport barriers via self-generated mean flows in Alcator C-Mod. <i>Physics of Plasmas</i> , 2012, 19, 056113.	1.9	18
33	High-Q plasmas in the TFTR tokamak. <i>Physics of Fluids B</i> , 1991, 3, 2308-2314.	1.7	17
34	Gyrokinetic studies of the effect of $\hat{\nu}^2$ on drift-wave stability in the National Compact Stellarator Experiment. <i>Physics of Plasmas</i> , 2012, 19, 122306.	1.9	16
35	Nonlinear gyrokinetic simulations of the I-mode high confinement regime and comparisons with	1.9	16
36	Quantitative comparison of electron temperature fluctuations to nonlinear gyrokinetic simulations in C-Mod Ohmic L-mode discharges. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	16

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37	Isotope effects on particle transport in the Compact Helical System. Plasma Physics and Controlled Fusion, 2016, 58, 055011.	2.1	15
38	Characterization of core and edge turbulence in L- and enhanced D $\pm$ H-mode Alcator C-Mod plasmas. Physics of Plasmas, 2005, 12, 052512.	1.9	13
39	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	3.5	13
40	Multispecies density peaking in gyrokinetic turbulence simulations of low collisionality Alcator C-Mod plasmas. Physics of Plasmas, 2015, 22, .	1.9	12
41	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
42	Synthesis of Ozone at Atmospheric Pressure by a Quenched Induction-Coupled Plasma Torch. Plasma Chemistry and Plasma Processing, 1999, 19, 191-216.	2.4	11
43	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
44	Verification and application of numerically generated magnetic coordinate systems in gyrokinetics. Physics of Plasmas, 2008, 15, .	1.9	8
45	Preparations for deuterium-tritium experiments on the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1560-1567.	1.9	7
46	Overview of recent Alcator C-Mod research. Nuclear Fusion, 2003, 43, 1610-1618.	3.5	7
47	Feasibility study for a correlation electron cyclotron emission turbulence diagnostic based on nonlinear gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2011, 53, 115003.	2.1	7
48	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
49	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
50	Assessment of Transport in NCSX. Fusion Science and Technology, 2007, 51, 166-180.	1.1	6
51	Verification of gyrokinetic microstability codes with an LHD configuration. Physics of Plasmas, 2014, 21, 112305.	1.9	4
52	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
53	Fusion Engineering and Plasma Science Conditions of Spherical Torus Component Test Facility. Fusion Science and Technology, 2005, 47, 370-383.	1.1	2
54	Effects of Resonant Magnetic Perturbation on Particle Transport in LHD. Plasma and Fusion Research, 2013, 8, 2402141-2402141.	0.7	2

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55	Spherical Tokamak Plasma Science and Fusion Energy Component Testing. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 857-867.	0.2	1
56	Applications and development requirements for multi-MeV light atom beams. AIP Conference Proceedings, 1984, , .	0.4	0
57	Deuterium-tritium experiments on TFTR. AIP Conference Proceedings, 1995, , .	0.4	0
58	Deuterium-tritium simulations of the enhanced reversed shear mode in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1316-1325.	1.9	0