

# Dennis Mueller

## List of Publications by Year in descending order

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66  
papers

1,400  
citations

304743

22  
h-index

330143

37  
g-index

67  
all docs

67  
docs citations

67  
times ranked

964  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances and challenges in KSTAR plasma control toward long-pulse, high-performance experiments. Fusion Engineering and Design, 2020, 156, 111622.	1.9	5
2	Improved fast vertical control in KSTAR. Fusion Engineering and Design, 2019, 141, 9-14.	1.9	8
3	Simplifying the ST and AT Concepts. Journal of Fusion Energy, 2016, 35, 34-40.	1.2	4
4	Progress and plan of KSTAR plasma control system upgrade. Fusion Engineering and Design, 2016, 112, 687-691.	1.9	14
5	055904.	1.9	38
6	In situ measurement of low-Z material coating thickness on high Z substrate for tokamaks. Review of Scientific Instruments, 2014, 85, 11E821.	1.3	2
7	Magnetic diagnostics for equilibrium reconstruction and realtime plasma control in NSTX-Upgrade. Review of Scientific Instruments, 2014, 85, 11E807.	1.3	11
8	Design Details of the Transient CHI Plasma Start-up System on NSTX-U. IEEE Transactions on Plasma Science, 2014, 42, 2154-2160.	1.3	3
9	Design description of the coaxial helicity injection (CHI) system on NSTX-U. , 2013, , .		0
10	High non-inductive fraction H-mode discharges generated by high-harmonic fast wave heating and current drive in the National Spherical Torus Experiment. Physics of Plasmas, 2012, 19, .	1.9	22
11	Snowflake divertor configuration studies in National Spherical Torus Experiment. Physics of Plasmas, 2012, 19, .	1.9	67
12	Implementation of $\hat{I}^2_N$ Control in the National Spherical Torus Experiment. Fusion Science and Technology, 2012, 61, 11-18.	1.1	12
13	Massive Gas Injection Plans for Disruption Mitigation Studies in NSTX-U. IEEE Transactions on Fundamentals and Materials, 2012, 132, 468-471.	0.2	0
14	Transient Coaxial Helicity Injection Plasma Start-up in NSTX and CHI Program Plans on NSTX-U. IEEE Transactions on Fundamentals and Materials, 2012, 132, 462-467.	0.2	0
15	Experimental demonstration of tokamak inductive flux saving by transient coaxial helicity injection on national spherical torus experiment. Physics of Plasmas, 2011, 18, .	1.9	21
16	Tokamak Start-Up Modeling and Design for EAST First Plasma Campaign. Fusion Science and Technology, 2010, 57, 48-65.	1.1	18
17	Demonstration of Plasma Start-up in HIT-II and NSTX Using Transient Coaxial Helicity Injection. Journal of Fusion Energy, 2010, 29, 540-542.	1.2	0
18	Current Status of EAST Plasma Control and Data Acquisition. IEEE Transactions on Nuclear Science, 2010, 57, 510-514.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Divertor heat flux mitigation in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, 022501.	1.9	33
20	ECH-assisted startup at KSTAR. , 2009, , .		0
21	Solenoid-free Plasma Start-up in NSTX using Transient CHI. <i>Journal of Fusion Energy</i> , 2009, 28, 200-202.	1.2	2
22	Design of plasma shape control system for KSTAR tokamak. , 2009, , .		2
23	Solenoid-Less Plasma Start-Up in NSTX Using Transient CHI. <i>Fusion Science and Technology</i> , 2009, 56, 512-517.	1.1	1
24	Plasma Start-up in HIT-II and NSTX Using Transient Coaxial Helicity Injection. <i>Journal of Fusion Energy</i> , 2008, 27, 96-99.	1.2	1
25	Temperature and density characteristics of the Helicity Injected Torus-II spherical tokamak indicating closed flux sustainment using coaxial helicity injection. <i>Physics of Plasmas</i> , 2008, 15, 082501.	1.9	3
26	The effect of lithium surface coatings on plasma performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	153
27	Transport with reversed shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2007, 14, 056119.	1.9	37
28	Plasma startup in the National Spherical Torus Experiment using transient coaxial helicity injection. <i>Physics of Plasmas</i> , 2007, 14, 056106.	1.9	8
29	Scaling of Electron and Ion Transport in the High-Power Spherical Torus NSTX. <i>Physical Review Letters</i> , 2007, 98, .	7.8	67
30	Solenoid-free Plasma Start-up in HIT-II and NSTX using Transient CHI. <i>Journal of Fusion Energy</i> , 2007, 26, 159-162.	1.2	2
31	E $\tilde{A}$ – B Plasma Rotation and n = 1 Oscillation Observed in the NSTX-CHI Experiments. <i>Plasma and Fusion Research</i> , 2007, 2, 035-035.	0.7	3
32	Cross-machine comparison of resonant field amplification and resistive wall mode stabilization by plasma rotation. <i>Physics of Plasmas</i> , 2006, 13, 056107.	1.9	100
33	Characterization of small, Type V edge-localized modes in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 092510.	1.9	33
34	Effect of plasma shaping on performance in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056122.	1.9	33
35	Design, installation and performance of the new insulator for NSTX CHI experiments. , 2005, , .		0
36	Solenoid-free Plasma Startup in NSTX using Coaxial Helicity Injection. <i>IEEE Transactions on Fundamentals and Materials</i> , 2005, 125, 895-901.	0.2	0

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37	Results of NSTX heating experiments. IEEE Transactions on Plasma Science, 2003, 31, 60-67.	1.3	2
38	H-mode threshold and dynamics in the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1755-1764.	1.9	27
39	Exploration of high harmonic fast wave heating on the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1733-1738.	1.9	31
40	Beta-limiting instabilities and global mode stabilization in the National Spherical Torus Experiment. Physics of Plasmas, 2002, 9, 2085-2092.	1.9	65
41	High-Harmonic Fast-Wave heating in NSTX. AIP Conference Proceedings, 2001, , .	0.4	3
42	Non-inductive current generation in NSTX using coaxial helicity injection. Nuclear Fusion, 2001, 41, 1081-1086.	3.5	66
43	Overview of the initial NSTX experimental results. Nuclear Fusion, 2001, 41, 1435-1447.	3.5	49
44	Initial physics results from the National Spherical Torus Experiment. Physics of Plasmas, 2001, 8, 1977-1987.	1.9	46
45	Upgrade for the National Spherical Torus Experiment control computer. IEEE Transactions on Nuclear Science, 2000, 47, 219-221.	2.0	1
46	Control system development plan for the National Spherical Torus Experiment. IEEE Transactions on Nuclear Science, 2000, 47, 222-224.	2.0	4
47	In-vessel tritium measurements using beta decay in the Tokamak Fusion Test Reactor. Review of Scientific Instruments, 1999, 70, 1119-1122.	1.3	5
48	Tests of local transport theory and reduced wall impurity influx with highly radiative plasmas in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1999, 6, 877-884.	1.9	45
49	Observation of particle transport barriers in reverse shear plasmas on the Tokamak Fusion Test Reactor. Physics of Plasmas, 1998, 5, 1832-1838.	1.9	24
50	Neutral Atom Modeling of the TFTR First Wall, Pump Ducts, and Neutral Beams. Fusion Science and Technology, 1998, 33, 74-83.	0.6	0
51	Enhancement of Tokamak Fusion Test Reactor performance by lithium conditioning. Physics of Plasmas, 1996, 3, 1892-1897.	1.9	181
52	Enhanced performance of deuterium-tritium fueled supershots using extensive lithium conditioning in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 4252-4256.	1.9	36
53	Investigation of global Alfvén instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.7	37
54	Experiments utilizing ion cyclotron range of frequencies heating on the TFTR tokamak. Physics of Fluids B, 1991, 3, 2270-2276.	1.7	9

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55	High- $\beta$ operation and magnetohydrodynamic activity on the TFTR tokamak. Physics of Fluids B, 1990, 2, 1287-1290.	1.7	35
56	End points in discharge cleaning on TFTR. AIP Conference Proceedings, 1990, , .	0.4	0
57	TFTR Plasma Feedback Systems. Fusion Science and Technology, 1985, 8, 1807-1812.	0.6	10
58	A tritium detector for the Tokamak Fusion Test Reactor. , 0, , .		0
59	D-t Experiments On Tftr. , 0, , .		0
60	On going and planned D-T experiments on TFTR. , 0, , .		0
61	Tritium retention and removal on TFTR. , 0, , .		6
62	Tritium removal by CO/sub 2/ laser heating. , 0, , .		4
63	Making of the NSTX facility. , 0, , .		3
64	Control system development plan for the National Spherical Torus Experiment. , 0, , .		0
65	High performance plasmas on the National Spherical Torus Experiment. , 0, , .		0
66	NSTX high field side gas fueling system. , 0, , .		2