Dennis Mueller

List of Publications by Year
in descending order

66	1,400	304743	330143
papers	citations	22 h-index	37 g-index

67	67	67	964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of Tokamak Fusion Test Reactor performance by lithium conditioning. Physics of Plasmas, 1996, 3, 1892-1897.	1.9	181
2	The effect of lithium surface coatings on plasma performance in the National Spherical Torus Experiment. Physics of Plasmas, 2008, 15, .	1.9	153
3	Cross-machine comparison of resonant field amplification and resistive wall mode stabilization by plasma rotation. Physics of Plasmas, 2006, 13, 056107.	1.9	100
4	Scaling of Electron and Ion Transport in the High-Power Spherical Torus NSTX. Physical Review Letters, 2007, 98, .	7.8	67
5	Snowflake divertor configuration studies in National Spherical Torus Experiment. Physics of Plasmas, 2012, 19, .	1.9	67
6	Non-inductive current generation in NSTX using coaxial helicity injection. Nuclear Fusion, 2001, 41, 1081-1086.	3.5	66
7	Beta-limiting instabilities and global mode stabilization in the National Spherical Torus Experiment. Physics of Plasmas, 2002, 9, 2085-2092.	1.9	65
8	Overview of the initial NSTX experimental results. Nuclear Fusion, 2001, 41, 1435-1447.	3.5	49
9	Initial physics results from the National Spherical Torus Experiment. Physics of Plasmas, 2001, 8, 1977-1987.	1.9	46
10	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
11	055904.	1.9	38
12	Investigation of global AlfvÃ©n instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.7	37
13	Transport with reversed shear in the National Spherical Torus Experiment. Physics of Plasmas, 2007, 14, 056119.	1.9	37
14	Enhanced performance of deuteriumâ€“tritiumâ€fueled supershots using extensive lithium conditioning in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 4252-4256.	1.9	36
15	Highâ€beta operation and magnetohydrodynamic activity on the TFTR tokamak. Physics of Fluids B, 1990, 2, 1287-1290.	1.7	35
16	Characterization of small, Type V edge-localized modes in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 092510.	1.9	33
17	Effect of plasma shaping on performance in the National Spherical Torus Experiment. Physics of Plasmas, 2006, 13, 056122.	1.9	33
18	Divertor heat flux mitigation in the National Spherical Torus Experiment. Physics of Plasmas, 2009, 16, 022501.	1.9	33

#	Article	IF	Citations
19	Exploration of high harmonic fast wave heating on the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1733-1738.	1.9	31
20	H-mode threshold and dynamics in the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 1755-1764.	1.9	27
21	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
22	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
23	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
24	Tokamak Start-Up Modeling and Design for EAST First Plasma Campaign. Fusion Science and Technology, 2010, 57, 48-65.	1.1	18
25	Progress and plan of KSTAR plasma control system upgrade. Fusion Engineering and Design, 2016, 112, 687-691.	1.9	14
26	Implementation of Î²_N Control in the National Spherical Torus Experiment. Fusion Science and Technology, 2012, 61, 11-18.	1.1	12
27	Magnetic diagnostics for equilibrium reconstruction and realtime plasma control in NSTX-Upgrade. Review of Scientific Instruments, 2014, 85, 11E807.	1.3	11
28	TFTR Plasma Feedback Systems. Fusion Science and Technology, 1985, 8, 1807-1812.	0.6	10
29	Experiments utilizing ion cyclotron range of frequencies heating on the TFTR tokamak. Physics of Fluids B, 1991, 3, 2270-2276.	1.7	9
30	Plasma startup in the National Spherical Torus Experiment using transient coaxial helicity injection. Physics of Plasmas, 2007, 14, 056106.	1.9	8
31	Improved fast vertical control in KSTAR. Fusion Engineering and Design, 2019, 141, 9-14.	1.9	8
32	Tritium retention and removal on TFTR. , 0, , .		6
33	Current Status of EAST Plasma Control and Data Acquisition. IEEE Transactions on Nuclear Science, 2010, 57, 510-514.	2.0	6
34	In-vessel tritium measurements using beta decay in the Tokamak Fusion Test Reactor. Review of Scientific Instruments, 1999, 70, 1119-1122.	1.3	5
35	Advances and challenges in KSTAR plasma control toward long-pulse, high-performance experiments. Fusion Engineering and Design, 2020, 156, 111622.	1.9	5
36	Tritium removal by CO/sub 2/ laser heating. , 0, , .		4

#	Article	IF	Citations
37	Control system development plan for the National Spherical Torus Experiment. IEEE Transactions on Nuclear Science, 2000, 47, 222-224.	2.0	4
38	Simplifying the ST and AT Concepts. Journal of Fusion Energy, 2016, 35, 34-40.	1.2	4
39	Making of the NSTX facility. , 0, , .		3
40	High-Harmonic Fast-Wave heating in NSTX. AIP Conference Proceedings, 2001, , .	0.4	3
41	Temperature and density characteristics of the Helicity Injected Torus-II spherical tokamak indicating closed flux sustainment using coaxial helicity injection. Physics of Plasmas, 2008, 15, 082501.	1.9	3
42	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
43	E Ã— B Plasma Rotation and n = 1 Oscillation Observed in the NSTX-CHI Experiments. Plasma and Fusion Research, 2007, 2, 035-035.	0.7	3
44	Results of NSTX heating experiments. IEEE Transactions on Plasma Science, 2003, 31, 60-67.	1.3	2
45	NSTX high field side gas fueling system. , 0, , .		2
46	Solenoid-free Plasma Start-up in HIT-II and NSTX using Transient CHI. Journal of Fusion Energy, 2007, 26, 159-162.	1.2	2
47	Solenoid-free Plasma Start-up in NSTX using Transient CHI. Journal of Fusion Energy, 2009, 28, 200-202.	1.2	2
48	Design of plasma shape control system for KSTAR tokamak. , 2009, , .		2
49	In situmeasurement of low-Z material coating thickness on high Z substrate for tokamaks. Review of Scientific Instruments, 2014, 85, 11E821.	1.3	2
50	Upgrade for the National Spherical Torus Experiment control computer. IEEE Transactions on Nuclear Science, 2000, 47, 219-221.	2.0	1
51	Plasma Start-up in HIT-II and NSTX Using Transient Coaxial Helicity Injection. Journal of Fusion Energy, 2008, 27, 96-99.	1.2	1
52	Solenoid-Less Plasma Start-Up in NSTX Using Transient CHI. Fusion Science and Technology, 2009, 56, 512-517.	1.1	1
53	A tritium detector for the Tokamak Fusion Test Reactor. , 0, , .		0
54	End points in discharge cleaning on TFTR. AIP Conference Proceedings, 1990, , .	0.4	0

#	Article	IF	Citations
55	D-t Experiments On Tftr. , 0, , .		0
56	On going and planned D-T experiments on TFTR. , 0, , .		0
57	Neutral Atom Modeling of the TFTR First Wall, Pump Ducts, and Neutral Beams. Fusion Science and Technology, 1998, 33, 74-83.	0.6	0
58	Control system development plan for the National Spherical Torus Experiment. , 0, , .		0
59	High performance plasmas on the National Spherical Torus Experiment. , 0, , .		0
60	Design, installation and performance of the new insulator for NSTX CHI experiments. , 2005, , .		0
61	ECH-assisted startup at KSTAR. , 2009, , .		0
62	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
63	Design description of the coaxial helicity injection (CHI) system on NSTX-U. , 2013, , .		0
64	Solenoid-free Plasma Startup in NSTX using Coaxial Helicity Injection. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 895-901.	0.2	0
65	Massive Gas Injection Plans for Disruption Mitigation Studies in NSTX-U. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 468-471.	0.2	0
66	Transient Coaxial Helicity Injection Plasma Start-up in NSTX and CHI Program Plans on NSTX-U. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 462-467.	0.2	0