

Mickey Wade

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Magnetic Confinement Fusion Principles. , 2021, , 369-382.		1
2	Cost Drivers for a Tokamak-Based Compact Pilot Plant. Fusion Science and Technology, 2021, 77, 119-143.	1.1	11
3	Innovative approaches towards an economic fusion reactor. National Science Review, 2020, 7, 245-247.	9.5	2
4	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. Physical Review Letters, 2015, 114, 105002.	7.8	141
5	Increase of turbulence and transport with resonant magnetic perturbations in ELM-suppressed plasmas on DIII-D. Nuclear Fusion, 2013, 53, 113011.	3.5	73
6	Measurement of plasma boundary displacement by $n=2$ magnetic perturbations using imaging beam emission spectroscopy. Nuclear Fusion, 2012, 52, 123019.	3.5	47
7	The EPED pedestal model and edge localized mode-suppressed regimes: Studies of quiescent H-mode and development of a model for edge localized mode suppression via resonant magnetic perturbations. Physics of Plasmas, 2012, 19, .	1.9	140
8	ITER test blanket module error field simulation experiments at DIII-D. Nuclear Fusion, 2011, 51, 103028.	3.5	36
9	Active and passive spectroscopic imaging in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2010, 52, 045006.	2.1	27
10	Validation of on- and off-axis neutral beam current drive against experiment in DIII-D. Physics of Plasmas, 2009, 16, 092508.	1.9	23
11	Magnetic-Flux Pumping in High-Performance, Stationary Plasmas with Tearing Modes. Physical Review Letters, 2009, 102, 045005.	7.8	71
12	The maintenance of good wall conditions and high performance operation on DIII-D over extended periods without boronization. Plasma Physics and Controlled Fusion, 2009, 51, 055014.	2.1	0
13	Physics and engineering issues associated with edge localized mode control in ITER. Fusion Engineering and Design, 2009, 84, 178-185.	1.9	5
14	Prospects for Off-Axis Neutral Beam Current Drive in the DIII-D Tokamak. Fusion Science and Technology, 2008, 54, 994-1002.	1.1	8
15	Stabilization and prevention of the 2/1 neoclassical tearing mode for improved performance in DIII-D. Nuclear Fusion, 2007, 47, 371-377.	3.5	63
16	Evidence for anomalous effects on the current evolution in the tokamak hybrid operating scenarios. Nuclear Fusion, 2007, 47, 825-832.	3.5	14
17	Characteristics of the H-mode pedestal in improved confinement scenarios in ASDEX Upgrade, DIII-D, JET and JT-60U. Nuclear Fusion, 2007, 47, 535-551.	3.5	63
18	Development in the DIII-D tokamak of advanced operating scenarios and associated control techniques for ITER. Nuclear Fusion, 2007, 47, S543-S562.	3.5	27

#	ARTICLE	IF	CITATIONS
19	Chapter 2: Plasma confinement and transport. Nuclear Fusion, 2007, 47, S18-S127.	3.5	649
20	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
21	Chapter 6: Steady state operation. Nuclear Fusion, 2007, 47, S285-S336.	3.5	323
22	Experimental test of the neoclassical theory of impurity poloidal rotation in tokamaks. Physics of Plasmas, 2006, 13, 056116.	1.9	96
23	Progress on advanced tokamak and steady-state scenario development on DIII-D and NSTX. Plasma Physics and Controlled Fusion, 2006, 48, B39-B52.	2.1	13
24	Comparison of H-mode pedestals in different confinement regimes in DIII-D. Plasma Physics and Controlled Fusion, 2006, 48, A109-A119.	2.1	12
25	Progress toward fully noninductive, high beta conditions in DIII-D. Physics of Plasmas, 2006, 13, 056106.	1.9	57
26	A comparison of sawtooth oscillations in bean and oval shaped plasmas. Plasma Physics and Controlled Fusion, 2006, 48, L65-L72.	2.1	29
27	Progress towards high-performance steady-state operation on DIII-D. Fusion Engineering and Design, 2006, 81, 2807-2815.	1.9	1
28	Feedback control of the safety factor profile evolution during formation of an advanced tokamak discharge. Nuclear Fusion, 2006, 46, L13-L17.	3.5	49
29	Control of plasma profiles in DIII-D discharges. Plasma Physics and Controlled Fusion, 2006, 48, A45-A53.	2.1	14
30	Progress towards steady state on NSTX. Nuclear Fusion, 2006, 46, S22-S28.	3.5	17
31	Survey of Type I ELM dynamics measurements. Plasma Physics and Controlled Fusion, 2006, 48, A149-A162.	2.1	43
32	Access to sustained high-beta with internal transport barrier and negative central magnetic shear in DIII-D. Physics of Plasmas, 2006, 13, 056110.	1.9	51
33	Hybrid Scenario Development in DIII-D. Fusion Science and Technology, 2005, 48, 1199-1211.	1.1	5
34	Divertor Physics and Concept Development on DIII-D and Doublet-III Tokamaks. Fusion Science and Technology, 2005, 48, 1072-1082.	1.1	16
35	Transport Studies in DIII-D with Modulated Heat and Particle Sources. Fusion Science and Technology, 2005, 48, 988-996.	1.1	2
36	Progress towards achieving profile control in the recently upgraded DIII-D plasma control system. Fusion Engineering and Design, 2005, 74, 659-664.	1.9	4

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37	Suppression of large edge localized modes with edge resonant magnetic fields in high confinement DIII-D plasmas. Nuclear Fusion, 2005, 45, 595-607.	3.5	166
38	Development, physics basis and performance projections for hybrid scenario operation in ITER on DIII-D. Nuclear Fusion, 2005, 45, 407-416.	3.5	85
39	Stationary, high bootstrap fraction plasmas in DIII-D without inductive current control. Nuclear Fusion, 2005, 45, 417-424.	3.5	53
40	Optimization of DIII-D advanced tokamak discharges with respect to the \hat{I}^2 limit. Physics of Plasmas, 2005, 12, 056126.	1.9	55
41	Edge localized mode control with an edge resonant magnetic perturbation. Physics of Plasmas, 2005, 12, 056119.	1.9	109
42	Edge impurity dynamics during an edge-localized mode cycle on DIII-D. Physics of Plasmas, 2005, 12, 056120.	1.9	40
43	Edge-Localized-Mode-Induced Transport of Impurity Density, Energy, and Momentum. Physical Review Letters, 2005, 94, 225001.	7.8	30
44	Advances in understanding quiescent H-mode plasmas in DIII-D. Physics of Plasmas, 2005, 12, 056121.	1.9	119
45	The improved H-mode at ASDEX Upgrade: a candidate for an ITER hybrid scenario. Nuclear Fusion, 2005, 45, 617-625.	3.5	53
46	100% noninductive operation at high beta using off-axis ECCD in DIII-D. Nuclear Fusion, 2005, 45, 1419-1426.	3.5	80
47	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2005, 45, S168-S180.	3.5	60
48	Status and Plans for the National Spherical Torus Experimental Research Facility. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 868-880.	0.2	1
49	Advanced tokamak research in DIII-D. Plasma Physics and Controlled Fusion, 2004, 46, B213-B233.	2.1	30
50	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
51	Beta scaling of transport on the DIII-D Tokamak: Is transport electrostatic or electromagnetic?. Physics of Plasmas, 2004, 11, 2514-2522.	1.9	63
52	Validation of Neoclassical Bootstrap Current Models in the Edge of an H-Mode Plasma. Physical Review Letters, 2004, 92, 235005.	7.8	37
53	Edge radial electric field structure in quiescent H-mode plasmas in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2004, 46, A165-A178.	2.1	55
54	Comparison of toroidal rotation velocities of different impurity ions in the DIII-D tokamak. Physics of Plasmas, 2004, 11, 3100-3105.	1.9	25

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55	High performance stationary discharges in the DIII-D tokamak. <i>Physics of Plasmas</i> , 2004, 11, 2627-2636.	1.9	57
56	Complete suppression of the $m=2/n=1$ neoclassical tearing mode using electron cyclotron current drive in DIII-D. <i>Nuclear Fusion</i> , 2004, 44, 243-251.	3.5	146
57	High performance advanced tokamak regimes in DIII-D for next-step experiments. <i>Physics of Plasmas</i> , 2004, 11, 2616-2626.	1.9	19
58	Modification of the Current Profile in High-Performance Plasmas using Off-Axis Electron-Cyclotron-Current Drive in DIII-D. <i>Physical Review Letters</i> , 2003, 90, 255001.	7.8	27
59	Advanced tokamak profile evolution in DIII-D. <i>Physics of Plasmas</i> , 2003, 10, 1691-1697.	1.9	24
60	Stationary high-performance discharges in the DIII-D tokamak. <i>Nuclear Fusion</i> , 2003, 43, 321-329.	3.5	86
61	Integrated, advanced tokamak operation on DIII-D. <i>Nuclear Fusion</i> , 2003, 43, 634-646.	3.5	48
62	Effect of rotation on H-mode transport in DIII-D via changes in the $E \times B$ velocity shear. <i>Physics of Plasmas</i> , 2002, 9, 128-136.	1.9	29
63	Energy, particle and impurity transport in quiescent double barrier discharges in DIII-D. <i>Physics of Plasmas</i> , 2002, 9, 1970-1980.	1.9	41
64	Observation and analysis of a resistive mode with interchange parity in negative central shear plasmas in the DIII-D Tokamak. <i>Physics of Plasmas</i> , 2002, 9, 5043-5049.	1.9	12
65	Sustained rotational stabilization of DIII-D plasmas above the no-wall beta limit. <i>Physics of Plasmas</i> , 2002, 9, 1997-2005.	1.9	131
66	High performance H mode plasmas at densities above the Greenwald limit. <i>Nuclear Fusion</i> , 2002, 42, 52-58.	3.5	57
67	Effects of impurity seeding in DIII-D radiating mantle discharges. <i>Nuclear Fusion</i> , 2002, 42, 28-41.	3.5	31
68	Comparison of L-mode regimes with enhanced confinement by impurity seeding in JET and DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 1893-1902.	2.1	22
69	Progress towards increased understanding and control of internal transport barriers in DIII-D. <i>Nuclear Fusion</i> , 2002, 42, 333-339.	3.5	56
70	Status of the Linux PC cluster for between-pulse data analyses at DIII-D. <i>Fusion Engineering and Design</i> , 2002, 60, 319-323.	1.9	7
71	Quiescent H-mode plasmas in the DIII-D tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, A253-A263.	2.1	149
72	The effect of detachment on carbon divertor erosion/redeposition in the DIII-D tokamak. <i>Nuclear Fusion</i> , 2001, 41, 1243-1252.	3.5	36

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73	Dependence of edge stability on plasma shape and local pressure gradients in the DIII-D and JT-60U tokamaks. Nuclear Fusion, 2001, 41, 295-300.	3.5	72
74	Non-dimensional scaling of turbulence characteristics and turbulent diffusivity. Nuclear Fusion, 2001, 41, 1235-1242.	3.5	100
75	Physics of confinement improvement of plasmas with impurity injection in DIII-D. Nuclear Fusion, 2001, 41, 317-323.	3.5	36
76	Long pulse high performance discharges in the DIII-D tokamak. Nuclear Fusion, 2001, 41, 1585-1599.	3.5	68
77	The quiescent double barrier regime in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2001, 43, A95-A112.	2.1	35
78	A Linux cluster for between-pulse magnetic equilibrium reconstructions and other processor bound analyses. Review of Scientific Instruments, 2001, 72, 3277-3280.	1.3	8
79	Gas puff fueled H-mode discharges with good energy confinement above the Greenwald density limit on DIII-D. Physics of Plasmas, 2001, 8, 2017-2022.	1.9	38
80	Particle transport in DIII-D discharges with internal regions of enhanced confinement and counter injected neutral beams. Physics of Plasmas, 2001, 8, 1565-1572.	1.9	3
81	Quiescent double barrier high-confinement mode plasmas in the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2153-2162.	1.9	190
82	Progress toward long-pulse high-performance Advanced Tokamak discharges on the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2208-2216.	1.9	50
83	Thermal diffusivities in DIII-D show evidence of critical gradients. Physics of Plasmas, 2001, 8, 4128-4137.	1.9	40
84	Dimensionless \hat{A}^* scaling of particle transport in DIII-D L mode discharges. Nuclear Fusion, 2000, 40, 799-806.	3.5	9
85	Status of advanced tokamak scenario modelling with off-axis electron cyclotron current drive in DIII-D. Nuclear Fusion, 2000, 40, 1257-1265.	3.5	16
86	Advanced tokamak physics in DIII-D. Plasma Physics and Controlled Fusion, 2000, 42, B75-B85.	2.1	12
87	JET radiative mantle experiments in ELMy H-Mode. Plasma Physics and Controlled Fusion, 2000, 42, A81-A88.	2.1	15
88	The effect of plasma shape on H-mode pedestal characteristics on DIII-D. Plasma Physics and Controlled Fusion, 2000, 42, A175-A184.	2.1	114
89	Particle transport phenomena in the DIII-D tokamak. Nuclear Fusion, 2000, 40, 1003-1016.	3.5	58
90	Impurity-induced turbulence suppression and reduced transport in the DIII-D tokamak. Physics of Plasmas, 2000, 7, 1870-1877.	1.9	60

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91	Modification of high mode pedestal instabilities in the DIII-D tokamak. Physics of Plasmas, 2000, 7, 1976-1983.	1.9	74
92	Experimental Confirmation of Impurity Convection Driven by the Ion-Temperature Gradient in Toroidal Plasmas. Physical Review Letters, 2000, 84, 282-285.	7.8	71
93	Understanding and control of transport in Advanced Tokamak regimes in DIII-D. Physics of Plasmas, 2000, 7, 1959-1967.	1.9	49
94	Prompt radial electric field response to neutral beam injection. Nuclear Fusion, 1999, 39, 1051-1056.	3.5	8
95	Progress towards sustainment of advanced tokamak modes in DIII-D. Nuclear Fusion, 1999, 39, 1855-1864.	3.5	37
96	Radiative divertor and scrape-off layer experiments in open and baffled divertors on DIII-D. Nuclear Fusion, 1999, 39, 2015-2023.	3.5	29
97	Approach to steady state high performance in DD and DT plasmas with optimized shear in JET. Nuclear Fusion, 1999, 39, 407-428.	3.5	50
98	Overview of experiments with radiation cooling at high confinement and high density in limited and diverted discharges. Plasma Physics and Controlled Fusion, 1999, 41, A379-A399.	2.1	51
99	Prospects for charge-exchange-recombination-based measurements on International Thermonuclear Experimental Reactor using a helium diagnostic neutral beam. Review of Scientific Instruments, 1999, 70, 886-889.	1.3	4
100	Dependence of Heat and Particle Transport on the Ratio of the Ion and Electron Temperatures. Physical Review Letters, 1999, 83, 3661-3664.	7.8	73
101	Physics of the detached radiative divertor regime in DIII-D. Plasma Physics and Controlled Fusion, 1999, 41, A345-A355.	2.1	49
102	Partial pressure measurements with an active spectrometer. Review of Scientific Instruments, 1999, 70, 423-426.	1.3	4
103	Chapter 4: Power and particle control. Nuclear Fusion, 1999, 39, 2391-2469.	3.5	285
104	Internal Transport Barriers in JET Deuterium-Tritium Plasmas. Physical Review Letters, 1998, 80, 5544-5547.	7.8	119
105	Measurement of electron particle transport coefficients in different operational modes of DIII-D. Nuclear Fusion, 1998, 38, 485-494.	3.5	32
106	Scaling of heat transport with beta in the DIII-D tokamak. Nuclear Fusion, 1998, 38, 1183-1198.	3.5	45
107	Internal transport barriers in optimized shear plasmas in JET. Plasma Physics and Controlled Fusion, 1998, 40, 647-652.	2.1	12
108	Operation at high performance in optimized shear plasmas in JET. Plasma Physics and Controlled Fusion, 1998, 40, 1171-1184.	2.1	47

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109	Impurity enrichment studies with induced scrape-off layer flow on DIII-D. Nuclear Fusion, 1998, 38, 1839-1859.	3.5	53
110	Argon density measurements from charge exchange spectroscopy. Physics of Plasmas, 1998, 5, 3694-3699.	1.9	30
111	Experimental constraints on transport from dimensionless parameter scaling studies. Physics of Plasmas, 1998, 5, 1695-1702.	1.9	36
112	Radiative divertor plasmas with convection in DIII-D. Physics of Plasmas, 1998, 5, 1736-1743.	1.9	28
113	Measurement and verification of zeff radial profiles using charge exchange recombination spectroscopy on DIII-D. Nuclear Fusion, 1998, 38, 387-398.	3.5	45
114	Prospects for Core Helium Density and Related Measurements on ITER Using Active Charge Exchange. , 1998, , 361-370.		4
115	Divertor plasma studies on DIII-D: experiment and modelling. Plasma Physics and Controlled Fusion, 1997, 39, A295-A310.	2.1	9
116	Gyroradius Scaling of Helium Transport. Physical Review Letters, 1997, 79, 419-422.	7.8	20
117	Investigation of physical processes limiting plasma density in high confinement mode discharges on DIII-D. Physics of Plasmas, 1997, 4, 1752-1760.	1.9	53
118	Application of a species-selective Penning gauge to the measurement of neon and hydrogen-isotope partial pressures in the plasma boundary. Review of Scientific Instruments, 1997, 68, 400-403.	1.3	20
119	The two-dimensional structure of radiative divertor plasmas in the DIII-D tokamak. Physics of Plasmas, 1997, 4, 1761-1773.	1.9	60
120	Higher Fusion Power Gain with Current and Pressure Profile Control in Strongly Shaped DIII-D Tokamak Plasmas. Physical Review Letters, 1996, 77, 2714-2717.	7.8	128
121	A Comprehensive 2â€œ Divertor Data Set from DIIIâ€œ for Edge Theory Validation. Contributions To Plasma Physics, 1996, 36, 127-131.	1.1	6
122	Control of wall particle inventory with divertor pumping on DIII-D. Nuclear Fusion, 1996, 36, 245-253.	3.5	44
123	Experimentally determined profiles of fast wave current drive in a tokamak. Physics of Plasmas, 1996, 3, 2846-2848.	1.9	9
124	Particle Exhaust Characteristics of an In-Vessel Cryopump Used in DIII-D Diverted Plasmas. Fusion Science and Technology, 1995, 27, 355-363.	0.6	11
125	Pumping characteristics of a cryopump with Ar sorbent in He and in a D2/He mixture. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 551-555.	2.1	8
126	Helium Exhaust Studies in H-Mode Discharges in the DIII-D Tokamak Using an Argon-Frosted Divertor Cryopump. Physical Review Letters, 1995, 74, 2702-2705.	7.8	34

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127	Characterization of fast ion behaviour during tangential neutral beam injection in the Advanced Toroidal Facility. Nuclear Fusion, 1995, 35, 1029-1045.	3.5	9
128	Recent DIII-D divertor research. Plasma Physics and Controlled Fusion, 1995, 37, A191-A202.	2.1	40
129	Helium transport and exhaust studies in enhanced confinement regimes in DIII-D. Physics of Plasmas, 1995, 2, 2357-2365.	1.9	76
130	Investigation into ion edge temperature behaviour using CER spectroscopy at DIII-D. Nuclear Fusion, 1995, 35, 347-357.	3.5	4
131	Fuel ion rotation measurement and its implications on H-mode theories. Plasma Physics and Controlled Fusion, 1994, 36, A183-A188.	2.1	20
132	Divertor pumping and other reactor application issues for H-mode. Plasma Physics and Controlled Fusion, 1994, 36, A249-A254.	2.1	4
133	Overview of H-mode studies in DIII-D. Plasma Physics and Controlled Fusion, 1994, 36, A13-A22.	2.1	10
134	Helium transport and exhaust studies of H-mode discharges in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 1994, 36, A171-A176.	2.1	4
135	Determination of the Noninductive Current Profile in Tokamak Plasmas. Physical Review Letters, 1994, 73, 2444-2447.	7.8	121
136	Rotation characteristics of main ions and impurity ions in H-mode tokamak plasma. Physical Review Letters, 1994, 72, 2199-2202.	7.8	159
137	Helium Transport and Exhaust Studies in DIII-D. Fusion Science and Technology, 1994, 26, 595-602.	0.6	2
138	Fluctuation and modulation transport studies in the Advanced Toroidal Facility (ATF) torsatron*. Physics of Fluids B, 1993, 5, 2513-2518.	1.7	15
139	Effects of magnetic geometry, fluctuations, and electric fields on confinement in the Advanced Toroidal Facility. Physics of Fluids B, 1992, 4, 2104-2110.	1.7	12
140	Physics of the L-mode to H-mode transition in tokamaks. Plasma Physics and Controlled Fusion, 1992, 34, 1859-1869.	2.1	199
141	Fast wave heating experiments in the ion cyclotron range of frequencies on ATF. Nuclear Fusion, 1992, 32, 1225-1240.	3.5	20
142	Recent results from the ATF torsatron. Physics of Fluids B, 1991, 3, 2261-2269.	1.7	19
143	Bootstrap-current experiments in a toroidal plasma-confinement device. Physical Review Letters, 1991, 66, 707-710.	7.8	46
144	Second stability in the ATF torsatron—Experiment and theory. Physics of Fluids B, 1990, 2, 1353-1358.	1.7	18

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145	Overview of results from the ATF torsatron. Physics of Fluids B, 1990, 2, 1347-1352.	1.7	11
146	ATF neutral particle analysis system. Review of Scientific Instruments, 1990, 61, 3202-3204.	1.3	6