

Mickey Wade

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Chapter 2: Plasma confinement and transport. Nuclear Fusion, 2007, 47, S18-S127.	3.5	649
2	Chapter 6: Steady state operation. Nuclear Fusion, 2007, 47, S285-S336.	3.5	323
3	Chapter 4: Power and particle control. Nuclear Fusion, 1999, 39, 2391-2469.	3.5	285
4	Physics of the L-mode to H-mode transition in tokamaks. Plasma Physics and Controlled Fusion, 1992, 34, 1859-1869.	2.1	199
5	Quiescent double barrier high-confinement mode plasmas in the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2153-2162.	1.9	190
6	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
7	Rotation characteristics of main ions and impurity ions in H-mode tokamak plasma. Physical Review Letters, 1994, 72, 2199-2202.	7.8	159
8	Quiescent H-mode plasmas in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2002, 44, A253-A263.	2.1	149
9	Complete suppression of the $m=2/n=1$ neoclassical tearing mode using electron cyclotron current drive in DIII-D. Nuclear Fusion, 2004, 44, 243-251.	3.5	146
10	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
11	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
12	Sustained rotational stabilization of DIII-D plasmas above the no-wall beta limit. Physics of Plasmas, 2002, 9, 1997-2005.	1.9	131
13	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
14	Determination of the Noninductive Current Profile in Tokamak Plasmas. Physical Review Letters, 1994, 73, 2444-2447.	7.8	121
15	Internal Transport Barriers in JET Deuterium-Tritium Plasmas. Physical Review Letters, 1998, 80, 5544-5547.	7.8	119
16	Advances in understanding quiescent H-mode plasmas in DIII-D. Physics of Plasmas, 2005, 12, 056121.	1.9	119
17	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
18	Edge localized mode control with an edge resonant magnetic perturbation. Physics of Plasmas, 2005, 12, 056119.	1.9	109

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19	Non-dimensional scaling of turbulence characteristics and turbulent diffusivity. Nuclear Fusion, 2001, 41, 1235-1242.	3.5	100
20	Experimental test of the neoclassical theory of impurity poloidal rotation in tokamaks. Physics of Plasmas, 2006, 13, 056116.	1.9	96
21	Stationary high-performance discharges in the DIII-D tokamak. Nuclear Fusion, 2003, 43, 321-329.	3.5	86
22	Development, physics basis and performance projections for hybrid scenario operation in ITER on DIII-D. Nuclear Fusion, 2005, 45, 407-416.	3.5	85
23	100% noninductive operation at high beta using off-axis ECCD in DIII-D. Nuclear Fusion, 2005, 45, 1419-1426.	3.5	80
24	Helium transport and exhaust studies in enhanced confinement regimes in DIII-D. Physics of Plasmas, 1995, 2, 2357-2365.	1.9	76
25	Modification of high mode pedestal instabilities in the DIII-D tokamak. Physics of Plasmas, 2000, 7, 1976-1983.	1.9	74
26	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
27	Increase of turbulence and transport with resonant magnetic perturbations in ELM-suppressed plasmas on DIII-D. Nuclear Fusion, 2013, 53, 113011.	3.5	73
28	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
29	Experimental Confirmation of Impurity Convection Driven by the Ion-Temperature Gradient in Toroidal Plasmas. Physical Review Letters, 2000, 84, 282-285.	7.8	71
30	Magnetic-Flux Pumping in High-Performance, Stationary Plasmas with Tearing Modes. Physical Review Letters, 2009, 102, 045005.	7.8	71
31	Long pulse high performance discharges in the DIII-D tokamak. Nuclear Fusion, 2001, 41, 1585-1599.	3.5	68
32	Beta scaling of transport on the DIII-D Tokamak: Is transport electrostatic or electromagnetic?. Physics of Plasmas, 2004, 11, 2514-2522.	1.9	63
33	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
34	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
35	The two-dimensional structure of radiative divertor plasmas in the DIII-D tokamak. Physics of Plasmas, 1997, 4, 1761-1773.	1.9	60
36	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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37	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2005, 45, S168-S180.	3.5	60
38	Particle transport phenomena in the DIII-D tokamak. Nuclear Fusion, 2000, 40, 1003-1016.	3.5	58
39	High performance H mode plasmas at densities above the Greenwald limit. Nuclear Fusion, 2002, 42, 52-58.	3.5	57
40	High performance stationary discharges in the DIII-D tokamak. Physics of Plasmas, 2004, 11, 2627-2636.	1.9	57
41	Progress toward fully noninductive, high beta conditions in DIII-D. Physics of Plasmas, 2006, 13, 056106.	1.9	57
42	Progress towards increased understanding and control of internal transport barriers in DIII-D. Nuclear Fusion, 2002, 42, 333-339.	3.5	56
43	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
44	Optimization of DIII-D advanced tokamak discharges with respect to the \hat{I}^2 limit. Physics of Plasmas, 2005, 12, 056126.	1.9	55
45	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
46	Impurity enrichment studies with induced scrape-off layer flow on DIII-D. Nuclear Fusion, 1998, 38, 1839-1859.	3.5	53
47	Stationary, high bootstrap fraction plasmas in DIII-D without inductive current control. Nuclear Fusion, 2005, 45, 417-424.	3.5	53
48	The improved H-mode at ASDEX Upgrade: a candidate for an ITER hybrid scenario. Nuclear Fusion, 2005, 45, 617-625.	3.5	53
49	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
50	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
51	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
52	Progress toward long-pulse high-performance Advanced Tokamak discharges on the DIII-D tokamak. Physics of Plasmas, 2001, 8, 2208-2216.	1.9	50
53	Physics of the detached radiative divertor regime in DIII-D. Plasma Physics and Controlled Fusion, 1999, 41, A345-A355.	2.1	49
54	Understanding and control of transport in Advanced Tokamak regimes in DIII-D. Physics of Plasmas, 2000, 7, 1959-1967.	1.9	49

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55	Feedback control of the safety factor profile evolution during formation of an advanced tokamak discharge. Nuclear Fusion, 2006, 46, L13-L17.	3.5	49
56	Integrated, advanced tokamak operation on DIII-D. Nuclear Fusion, 2003, 43, 634-646.	3.5	48
57	Operation at high performance in optimized shear plasmas in JET. Plasma Physics and Controlled Fusion, 1998, 40, 1171-1184.	2.1	47
58	Measurement of plasma boundary displacement by $n=2$ magnetic perturbations using imaging beam emission spectroscopy. Nuclear Fusion, 2012, 52, 123019.	3.5	47
59	Bootstrap-current experiments in a toroidal plasma-confinement device. Physical Review Letters, 1991, 66, 707-710.	7.8	46
60	Scaling of heat transport with beta in the DIII-D tokamak. Nuclear Fusion, 1998, 38, 1183-1198.	3.5	45
61	Measurement and verification of zeff radial profiles using charge exchange recombination spectroscopy on DIII-D. Nuclear Fusion, 1998, 38, 387-398.	3.5	45
62	Control of wall particle inventory with divertor pumping on DIII-D. Nuclear Fusion, 1996, 36, 245-253.	3.5	44
63	Survey of Type I ELM dynamics measurements. Plasma Physics and Controlled Fusion, 2006, 48, A149-A162.	2.1	43
64	Energy, particle and impurity transport in quiescent double barrier discharges in DIII-D. Physics of Plasmas, 2002, 9, 1970-1980.	1.9	41
65	Recent DIII-D divertor research. Plasma Physics and Controlled Fusion, 1995, 37, A191-A202.	2.1	40
66	Thermal diffusivities in DIII-D show evidence of critical gradients. Physics of Plasmas, 2001, 8, 4128-4137.	1.9	40
67	Edge impurity dynamics during an edge-localized mode cycle on DIII-D. Physics of Plasmas, 2005, 12, 056120.	1.9	40
68	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
69	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
70	Progress towards sustainment of advanced tokamak modes in DIII-D. Nuclear Fusion, 1999, 39, 1855-1864.	3.5	37
71	Validation of Neoclassical Bootstrap Current Models in the Edge of an H-Mode Plasma. Physical Review Letters, 2004, 92, 235005.	7.8	37
72	Experimental constraints on transport from dimensionless parameter scaling studies. Physics of Plasmas, 1998, 5, 1695-1702.	1.9	36

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73	The effect of detachment on carbon divertor erosion/redeposition in the DIII-D tokamak. Nuclear Fusion, 2001, 41, 1243-1252.	3.5	36
74	Physics of confinement improvement of plasmas with impurity injection in DIII-D. Nuclear Fusion, 2001, 41, 317-323.	3.5	36
75	ITER test blanket module error field simulation experiments at DIII-D. Nuclear Fusion, 2011, 51, 103028.	3.5	36
76	The quiescent double barrier regime in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2001, 43, A95-A112.	2.1	35
77	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
78	Measurement of electron particle transport coefficients in different operational modes of DIII-D. Nuclear Fusion, 1998, 38, 485-494.	3.5	32
79	Effects of impurity seeding in DIII-D radiating mantle discharges. Nuclear Fusion, 2002, 42, 28-41.	3.5	31
80	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
81	Argon density measurements from charge exchange spectroscopy. Physics of Plasmas, 1998, 5, 3694-3699.	1.9	30
82	Advanced tokamak research in DIII-D. Plasma Physics and Controlled Fusion, 2004, 46, B213-B233.	2.1	30
83	Edge-Localized-Mode-Induced Transport of Impurity Density, Energy, and Momentum. Physical Review Letters, 2005, 94, 225001.	7.8	30
84	Radiative divertor and scrape-off layer experiments in open and baffled divertors on DIII-D. Nuclear Fusion, 1999, 39, 2015-2023.	3.5	29
85	Effect of rotation on H-mode transport in DIII-D via changes in the E _B velocity shear. Physics of Plasmas, 2002, 9, 128-136.	1.9	29
86	A comparison of sawtooth oscillations in bean and oval shaped plasmas. Plasma Physics and Controlled Fusion, 2006, 48, L65-L72.	2.1	29
87	Radiative divertor plasmas with convection in DIII-D. Physics of Plasmas, 1998, 5, 1736-1743.	1.9	28
88	Modification of the Current Profile in High-Performance Plasmas using Off-Axis Electron-Cyclotron-Current Drive in DIII-D. Physical Review Letters, 2003, 90, 255001.	7.8	27
89	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
90	Active and passive spectroscopic imaging in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2010, 52, 045006.	2.1	27

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91	Comparison of toroidal rotation velocities of different impurity ions in the DIII-D tokamak. Physics of Plasmas, 2004, 11, 3100-3105.	1.9	25
92	Advanced tokamak profile evolution in DIII-D. Physics of Plasmas, 2003, 10, 1691-1697.	1.9	24
93	Validation of on- and off-axis neutral beam current drive against experiment in DIII-D. Physics of Plasmas, 2009, 16, 092508.	1.9	23
94	Comparison of L-mode regimes with enhanced confinement by impurity seeding in JET and DIII-D. Plasma Physics and Controlled Fusion, 2002, 44, 1893-1902.	2.1	22
95	Fast wave heating experiments in the ion cyclotron range of frequencies on ATF. Nuclear Fusion, 1992, 32, 1225-1240.	3.5	20
96	Fuel ion rotation measurement and its implications on H-mode theories. Plasma Physics and Controlled Fusion, 1994, 36, A183-A188.	2.1	20
97	Gyroradius Scaling of Helium Transport. Physical Review Letters, 1997, 79, 419-422.	7.8	20
98	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
99	Recent results from the ATF torsatron. Physics of Fluids B, 1991, 3, 2261-2269.	1.7	19
100	High performance advanced tokamak regimes in DIII-D for next-step experiments. Physics of Plasmas, 2004, 11, 2616-2626.	1.9	19
101	Second stability in the ATF torsatron—Experiment and theory. Physics of Fluids B, 1990, 2, 1353-1358.	1.7	18
102	Progress towards steady state on NSTX. Nuclear Fusion, 2006, 46, S22-S28.	3.5	17
103	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
104	Divertor Physics and Concept Development on DIII-D and Doublet-III Tokamaks. Fusion Science and Technology, 2005, 48, 1072-1082.	1.1	16
105	Fluctuation and modulation transport studies in the Advanced Toroidal Facility (ATF) torsatron*. Physics of Fluids B, 1993, 5, 2513-2518.	1.7	15
106	JET radiative mantle experiments in ELMy H-Mode. Plasma Physics and Controlled Fusion, 2000, 42, A81-A88.	2.1	15
107	Control of plasma profiles in DIII-D discharges. Plasma Physics and Controlled Fusion, 2006, 48, A45-A53.	2.1	14
108	Evidence for anomalous effects on the current evolution in the tokamak hybrid operating scenarios. Nuclear Fusion, 2007, 47, 825-832.	3.5	14

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109	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
110	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
111	Internal transport barriers in optimized shear plasmas in JET. Plasma Physics and Controlled Fusion, 1998, 40, 647-652.	2.1	12
112	Advanced tokamak physics in DIII-D. Plasma Physics and Controlled Fusion, 2000, 42, B75-B85.	2.1	12
113	Observation and analysis of a resistive mode with interchange parity in negative central shear plasmas in the DIII-D Tokamak. Physics of Plasmas, 2002, 9, 5043-5049.	1.9	12
114	Comparison of H-mode pedestals in different confinement regimes in DIII-D. Plasma Physics and Controlled Fusion, 2006, 48, A109-A119.	2.1	12
115	Overview of results from the ATF torsatron. Physics of Fluids B, 1990, 2, 1347-1352.	1.7	11
116	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
117	Cost Drivers for a Tokamak-Based Compact Pilot Plant. Fusion Science and Technology, 2021, 77, 119-143.	1.1	11
118	Overview of H-mode studies in DIII-D. Plasma Physics and Controlled Fusion, 1994, 36, A13-A22.	2.1	10
119	Characterization of fast ion behaviour during tangential neutral beam injection in the Advanced Toroidal Facility. Nuclear Fusion, 1995, 35, 1029-1045.	3.5	9
120	Experimentally determined profiles of fast wave current drive in a tokamak. Physics of Plasmas, 1996, 3, 2846-2848.	1.9	9
121	Divertor plasma studies on DIII-D: experiment and modelling. Plasma Physics and Controlled Fusion, 1997, 39, A295-A310.	2.1	9
122	Dimensionless \hat{A} *scaling of particle transport in DIII-D L mode discharges. Nuclear Fusion, 2000, 40, 799-806.	3.5	9
123	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
124	Prompt radial electric field response to neutral beam injection. Nuclear Fusion, 1999, 39, 1051-1056.	3.5	8
125	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
126	Prospects for Off-Axis Neutral Beam Current Drive in the DIII-D Tokamak. Fusion Science and Technology, 2008, 54, 994-1002.	1.1	8

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127	Status of the Linux PC cluster for between-pulse data analyses at DIII-D. Fusion Engineering and Design, 2002, 60, 319-323.	1.9	7
128	ATF neutral particle analysis system. Review of Scientific Instruments, 1990, 61, 3202-3204.	1.3	6
129	A Comprehensive α Divertor Data Set from DIII-D for Edge Theory Validation. Contributions To Plasma Physics, 1996, 36, 127-131.	1.1	6
130	Hybrid Scenario Development in DIII-D. Fusion Science and Technology, 2005, 48, 1199-1211.	1.1	5
131	Physics and engineering issues associated with edge localized mode control in ITER. Fusion Engineering and Design, 2009, 84, 178-185.	1.9	5
132	Divertor pumping and other reactor application issues for H-mode. Plasma Physics and Controlled Fusion, 1994, 36, A249-A254.	2.1	4
133	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
134	Investigation into ion edge temperature behaviour using CER spectroscopy at DIII-D. Nuclear Fusion, 1995, 35, 347-357.	3.5	4
135	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
136	Partial pressure measurements with an active spectrometer. Review of Scientific Instruments, 1999, 70, 423-426.	1.3	4
137	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
138	Prospects for Core Helium Density and Related Measurements on ITER Using Active Charge Exchange. , 1998, , 361-370.		4
139	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
140	Helium Transport and Exhaust Studies in DIII-D. Fusion Science and Technology, 1994, 26, 595-602.	0.6	2
141	Transport Studies in DIII-D with Modulated Heat and Particle Sources. Fusion Science and Technology, 2005, 48, 988-996.	1.1	2
142	Innovative approaches towards an economic fusion reactor. National Science Review, 2020, 7, 245-247.	9.5	2
143	Progress towards high-performance steady-state operation on DIII-D. Fusion Engineering and Design, 2006, 81, 2807-2815.	1.9	1
144	Magnetic Confinement Fusion Principles. , 2021, , 369-382.		1

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145	Status and Plans for the National Spherical Torus Experimental Research Facility. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 868-880.	0.2	1
146	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