

Didier Moreau

List of Publications by Year in descending order

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papers

2,869
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147801

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175258

52
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96
all docs

96
docs citations

96
times ranked

1295
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 6: Steady state operation. Nuclear Fusion, 2007, 47, S285-S336.	3.5	323
2	Stationary magnetic shear reversal experiments in Tore Supra. Plasma Physics and Controlled Fusion, 1996, 38, 1603-1626.	2.1	134
3	Simulations of steady-state scenarios for Tore Supra using the CRONOS code. Nuclear Fusion, 2003, 43, 822-830.	3.5	120
4	Improved confinement in high lillower hybrid driven steady state plasmas in TORE SUPRA. Nuclear Fusion, 1994, 34, 75-85.	3.5	108
5	A dimensionless criterion for characterizing internal transport barriers in JET. Nuclear Fusion, 2002, 42, 520-526.	3.5	106
6	JET Quasistationary Internal-Transport-Barrier Operation with Active Control of the Pressure Profile. Physical Review Letters, 2002, 88, 145004.	7.8	83
7	Real-time control of theq-profile in JET for steady state advanced tokamak operation. Nuclear Fusion, 2003, 43, 870-882.	3.5	80
8	Towards fully non-inductive current drive operation in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1057-1086.	2.1	79
9	A two-time-scale dynamic-model approach for magnetic and kinetic profile control in advanced tokamak scenarios on JET. Nuclear Fusion, 2008, 48, 106001.	3.5	73
10	Metis: a fast integrated tokamak modelling tool for scenario design. Nuclear Fusion, 2018, 58, 105001.	3.5	71
11	A model-based technique for integrated real-time profile control in the JET tokamak. Plasma Physics and Controlled Fusion, 2005, 47, 155-183.	2.1	69
12	Conceptual study of a reflector waveguide array for launching lower hybrid waves in reactor grade plasmas. Nuclear Fusion, 1995, 35, 1213-1223.	3.5	62
13	Progress towards steady-state operation and real-time control of internal transport barriers in JET. Nuclear Fusion, 2003, 43, 565-572.	3.5	61
14	Coupling of slow waves near the lower hybrid frequency in JET. Nuclear Fusion, 1990, 30, 471-484.	3.5	57
15	Lower hybrid wave coupling in TORE SUPRA through multijunction launchers. Nuclear Fusion, 1992, 32, 1883-1898.	3.5	55
16	Integrated scenario in JET using real-time profile control. Plasma Physics and Controlled Fusion, 2003, 45, A367-A383.	2.1	55
17	Non-local current response in wave driven tokamaks. Nuclear Fusion, 1989, 29, 1751-1758.	3.5	50
18	Hamiltonian analysis of fast wave current drive in tokamak plasmas. Physics of Plasmas, 1994, 1, 2908-2925.	1.9	50

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19	Lower-hybrid plasma heating via a new launcher – the multijunction grill. Nuclear Fusion, 1985, 25, 419-423.	3.5	49
20	On ray stochasticity during lower-hybrid current drive in tokamaks. Physics of Fluids B, 1993, 5, 1227-1238.	1.7	49
21	Real-time control of internal transport barriers in JET*. Plasma Physics and Controlled Fusion, 2002, 44, 1087-1104.	2.1	49
22	Active control of the current density profile in JET. Plasma Physics and Controlled Fusion, 2003, 45, L47-L54.	2.1	47
23	Statistical theory of wave propagation and multipass absorption for current drive in tokamaks. Physics of Fluids B, 1993, 5, 4391-4407.	1.7	46
24	Novel aspects of plasma control in ITER. Physics of Plasmas, 2015, 22, 021806.	1.9	45
25	Emerging applications in tokamak plasma control. IEEE Control Systems, 2006, 26, 35-63.	0.8	43
26	Plasma models for real-time control of advanced tokamak scenarios. Nuclear Fusion, 2011, 51, 063009.	3.5	39
27	Soft x-ray tomography for real-time applications: present status at Tore Supra and possible future developments. Review of Scientific Instruments, 2012, 83, 063505.	1.3	35
28	Plasma control issues for an advanced steady state tokamak reactor. Nuclear Fusion, 1999, 39, 685-693.	3.5	34
29	Integrated magnetic and kinetic control of advanced tokamak plasmas on DIII-D based on data-driven models. Nuclear Fusion, 2013, 53, 063020.	3.5	34
30	Lower-hybrid current drive experiments in TORE SUPRA. Physics of Fluids B, 1992, 4, 2165-2175.	1.7	33
31	Development of steady-state scenarios compatible with ITER-like wall conditions. Plasma Physics and Controlled Fusion, 2007, 49, B529-B550.	2.1	33
32	Magnetic ripple and the modeling of lower-hybrid current drive in tokamaks. Physics of Plasmas, 1996, 3, 3668-3688.	1.9	32
33	Wave chaos and the dependence of LHCD efficiency on temperature. Nuclear Fusion, 1992, 32, 1845-1851.	3.5	31
34	Probing Internal Transport Barriers with Heat Pulses in JET. Physical Review Letters, 2006, 96, 095002.	7.8	30
35	On self-consistent ray-tracing and Fokker-Planck modeling of the hard x-ray emission during lower-hybrid current drive in tokamaks. Physics of Fluids B, 1993, 5, 3276-3283.	1.7	29
36	Progress in LHCD: a tool for advanced regimes on ITER. Plasma Physics and Controlled Fusion, 2005, 47, B363-B377.	2.1	29

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37	Micro-stability and transport modelling of internal transport barriers on JET. Nuclear Fusion, 2003, 43, 975-981.	3.5	28
38	Lower hybrid current drive in TORE SUPRA and JET. Plasma Physics and Controlled Fusion, 1991, 33, 1621-1638.	2.1	27
39	Normal mode master equation for the distribution of lower hybrid electromagnetic energy in tokamaks. Plasma Physics and Controlled Fusion, 1989, 31, 1895-1920.	2.1	25
40	Measurement of the Time Constants of Fast Electron Distributions in the Tore Supra Tokamak. Physical Review Letters, 1995, 74, 550-553.	7.8	24
41	Full steady-state operation in Tore Supra. Plasma Physics and Controlled Fusion, 1996, 38, 2113-2131.	2.1	24
42	Thermal electron transport in regimes with low and negative magnetic shear in Tore Supra. Nuclear Fusion, 1997, 37, 1715-1733.	3.5	23
43	Investigation of steady-state tokamak issues by long pulse experiments on Tore Supra. Nuclear Fusion, 2009, 49, 104010.	3.5	23
44	Full wave modelling of lower hybrid current drive in tokamaks. Nuclear Fusion, 1998, 38, 939-944.	3.5	22
45	Real-time measurement and control at JET experiment control. Fusion Engineering and Design, 2005, 74, 561-566.	1.9	22
46	Estimation of heat loads on the wall structures in parasitic absorption of lower hybrid power. Nuclear Fusion, 2000, 40, 1477-1490.	3.5	21
47	Predictive transport simulations of real-time profile control in JET advanced tokamak plasmas. Nuclear Fusion, 2005, 45, 1027-1038.	3.5	18
48	Stochastic Instability of Relativistic Runaway Electrons Due to Lower Hybrid Waves. Europhysics Letters, 1991, 15, 497-502.	2.0	17
49	Estimation of Heat Source Term and Thermal Diffusion in Tokamak Plasmas Using a Kalman Filtering Method in the Early Lumping Approach. IEEE Transactions on Control Systems Technology, 2015, 23, 449-463.	5.2	17
50	Development on JET of advanced tokamak operations for ITER. Nuclear Fusion, 2006, 46, 214-224.	3.5	16
51	Lower hybrid wave absorption study to improve the calculation of energy confinement time in EAST. Physics of Plasmas, 2018, 25, .	1.9	16
52	Development of real-time diagnostics and feedback algorithms for JET in view of the next step. Plasma Physics and Controlled Fusion, 2005, 47, 395-407.	2.1	15
53	Generation of hot spots by fast electrons in lower hybrid grills. Physics of Plasmas, 1998, 5, 2553-2559.	1.9	14
54	Combined magnetic and kinetic control of advanced tokamak steady state scenarios based on semi-empirical modelling. Nuclear Fusion, 2015, 55, 063011.	3.5	14

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55	Electron absorption of fast magnetosonic waves by transit time magnetic pumping in JET. Nuclear Fusion, 1990, 30, 2170-2176.	3.5	13
56	Modeling of the shear effects on the thermal ion transport in advanced tokamak scenarios. Physics of Plasmas, 1999, 6, 4229-4238.	1.9	13
57	Technical issues associated with the control of steady state tokamaks. Nuclear Fusion, 2000, 40, 1167-1181.	3.5	13
58	Integrated Plasma Shape and Boundary Flux Control on JET Tokamak. Fusion Science and Technology, 2008, 53, 789-805.	1.1	11
59	Particle-in-cell simulation of parasitic absorption of lower hybrid power in edge plasmas of tokamaks. Plasma Physics and Controlled Fusion, 1999, 41, 1125-1133.	2.1	10
60	Contribution of Tore Supra in preparation of ITER. Nuclear Fusion, 2011, 51, 094014.	3.5	10
61	Recent contribution of JET to the ITER physics. Fusion Engineering and Design, 2009, 84, 150-160.	1.9	9
62	Lower hybrid wave coupling in the Wega Tokamak. Plasma Physics and Controlled Fusion, 1984, 26, 553-564.	2.1	8
63	Variational description of lower hybrid wave propagation and absorption in fusion plasmas. Nuclear Fusion, 1990, 30, 97-110.	3.5	8
64	Interaction of tokamak edge electrons with lower hybrid antenna electric field spectra. Plasma Physics and Controlled Fusion, 1999, 41, A495-A505.	2.1	6
65	Modelling of 'advanced tokamak' scenarios with radiofrequency heating and current drive for Tore Supra. Nuclear Fusion, 2001, 41, 845-864.	3.5	6
66	Innovative signal processing and data analysis methods on JET for control in the perspective of next-step devices. Nuclear Fusion, 2010, 50, 055005.	3.5	6
67	A two-time-scale model-based combined magnetic and kinetic control system for advanced tokamak scenarios on DIII-D. , 2012, , .		6
68	Robust control of q-profile and I_p^2 using data-driven models on EAST. Fusion Engineering and Design, 2021, 162, 112071.	1.9	6
69	Open and emerging control problems in tokamak plasma control. , 2008, , .		5
70	Data-driven modeling and feedback tracking control of the toroidal rotation profile for advanced tokamak scenarios in DIII-D. , 2011, , .		5
71	Optimal feedback control of the poloidal magnetic flux profile in the DIII-D tokamak based on identified plasma response models. , 2012, , .		5
72	Fast wave current drive in reactor scale tokamaks. Nuclear Fusion, 1992, 32, 701-712.	3.5	4

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73	Interaction of lower hybrid waves with scrape-off-layer electrons. European Physical Journal D, 1998, 48, 307-312.	0.4	4
74	Real time safety factor profile determination in JET. Fusion Engineering and Design, 2003, 66-68, 779-784.	1.9	4
75	Studies on Pellet Fueling of ITER-Like Plasmas. Fusion Science and Technology, 2004, 45, 558-566.	1.1	4
76	Modelling of hybrid scenario: from present-day experiments towards ITER. Nuclear Fusion, 2013, 53, 073024.	3.5	4
77	Data-driven robust control of the plasma rotational transform profile and normalized beta dynamics for advanced tokamak scenarios in DIII-D. Fusion Engineering and Design, 2017, 117, 39-57.	1.9	4
78	Real-Time Profile Control for Advanced Tokamak Operation. AIP Conference Proceedings, 2008, , .	0.4	3
79	Multi-experiment state-space identification of coupled magnetic and kinetic parameters in tokamak plasmas. Control Engineering Practice, 2017, 60, 28-38.	5.5	3
80	A mechanism for the reconnecting $m=2N=1$ instability in $q>1$ shearless equilibrium. Plasma Physics and Controlled Fusion, 1996, 38, 803-810.	2.1	2
81	An efficient technique for magnetic equilibrium reconstruction with q profile constraints and its application on the EAST tokamak. Nuclear Fusion, 2017, 57, 084001.	3.5	2
82	On the derivation of dispersion relations for parametric instabilities. Plasma Physics, 1981, 23, 15-21.	0.9	1
83	Current profile optimisation during RF-assisted current ramp-up in Tore Supra. , 1997, , .		1
84	Helium Transport in Advanced Tokamak Scenarios with Internal Transport Barrier. Fusion Science and Technology, 2001, 39, 119-126.	0.6	1
85	Real-Time Control of the Current Profile in JET. AIP Conference Proceedings, 2003, , .	0.4	1
86	A multiple-time-scale approach to the control of ITBs on JET. , 2006, , .		1
87	Identification and control of magneto-kinetic response during advanced tokamak scenarios in DIII-D. , 2013, , .		1
88	Comments on ICRH current drive in JET. Plasma Physics and Controlled Fusion, 1989, 31, 1785-1795.	2.1	0
89	Modelling of fast electron Bremsstrahlung emission during LHCD with a 2-D relativistic Fokker-Planck code. , 1996, , .		0
90	Full steady state LH scenarios in Tore Supra. , 1996, , .		0

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91	Report of the 3rd European Fusion Physics Workshop. Plasma Physics and Controlled Fusion, 1997, 39, 621-646.	2.1	0
92	Full wave simulation of lower hybrid current drive in tokamaks. , 1997, , .		0
93	Towards real time control of the internal transport barriers on JET. , 0, , .		0
94	Robust real-time feedback algorithms for plasma kinetic control in advanced tokamak scenarios. Plasma Physics and Controlled Fusion, 0, , .	2.1	0
95	Conceptual Study of a Reflector Array for Launching Lower Hybrid Waves in Reactor-Grade Plasmas. , 1995, , 565-568.		0