

David Campbell

List of Publications by Year in descending order

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122
papers

11,313
citations

81743

39
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106
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docs citations

122
times ranked

3680
citing authors

#	ARTICLE	IF	CITATIONS
1	Regime of Improved Confinement and High Beta in Neutral-Beam-Heated Divertor Discharges of the ASDEX Tokamak. <i>Physical Review Letters</i> , 1982, 49, 1408-1412.	2.9	1,941
2	Chapter 1: Overview and summary. <i>Nuclear Fusion</i> , 1999, 39, 2137-2174.	1.6	990
3	Chapter 2: Plasma confinement and transport. <i>Nuclear Fusion</i> , 1999, 39, 2175-2249.	1.6	887
4	Chapter 1: Overview and summary. <i>Nuclear Fusion</i> , 2007, 47, S1-S17.	1.6	714
5	Characteristics of type I ELM energy and particle losses in existing devices and their extrapolation to ITER. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 1549-1569.	0.9	487
6	Disruptions in JET. <i>Nuclear Fusion</i> , 1989, 29, 641-666.	1.6	399
7	Fusion energy production from a deuterium-tritium plasma in the JET tokamak. <i>Nuclear Fusion</i> , 1992, 32, 187-203.	1.6	334
8	Chapter 4: Power and particle control. <i>Nuclear Fusion</i> , 1999, 39, 2391-2469.	1.6	285
9	Chapter 3: MHD stability, operational limits and disruptions. <i>Nuclear Fusion</i> , 1999, 39, 2251-2389.	1.6	283
10	Plasma detachment in JET Mark I divertor experiments. <i>Nuclear Fusion</i> , 1998, 38, 331-371.	1.6	282
11	Disruptions in ITER and strategies for their control and mitigation. <i>Journal of Nuclear Materials</i> , 2015, 463, 39-48.	1.3	274
12	Progress on the application of ELM control schemes to ITER scenarios from the non-active phase to DT operation. <i>Nuclear Fusion</i> , 2014, 54, 033007.	1.6	214
13	Principal physics developments evaluated in the ITER design review. <i>Nuclear Fusion</i> , 2009, 49, 065012.	1.6	200
14	Power plant conceptual studies in Europe. <i>Nuclear Fusion</i> , 2007, 47, 1524-1532.	1.6	198
15	Stabilization of Sawteeth with Additional Heating in the JET Tokamak. <i>Physical Review Letters</i> , 1988, 60, 2148-2151.	2.9	194
16	Overview of the ITER TBM Program. <i>Fusion Engineering and Design</i> , 2012, 87, 395-402.	1.0	193
17	Rapid Collapse of a Plasma Sawtooth Oscillation in the JET Tokamak. <i>Physical Review Letters</i> , 1986, 57, 210-213.	2.9	186
18	Chapter 6: Plasma auxiliary heating and current drive. <i>Nuclear Fusion</i> , 1999, 39, 2495-2539.	1.6	163

#	ARTICLE	IF	CITATIONS
19	Characteristics and scaling of energy and particle losses during Type I ELMs in JET H-modes. Plasma Physics and Controlled Fusion, 2002, 44, 1815-1844.	0.9	153
20	ITER plasma-facing components. Fusion Engineering and Design, 2010, 85, 2312-2322.	1.0	144
21	Improved performance of ELMy H-modes at high density by plasma shaping in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1769-1799.	0.9	138
22	Direct Measurement of the Damping of Toroidicity-Induced Alfvén Eigenmodes. Physical Review Letters, 1995, 75, 645-648.	2.9	125
23	Large amplitude quasi-stationary MHD modes in JET. Nuclear Fusion, 1988, 28, 1085-1097.	1.6	117
24	H mode power threshold database for ITER. Nuclear Fusion, 1996, 36, 1217-1264.	1.6	116
25	ITER H mode confinement database update. Nuclear Fusion, 1994, 34, 131-167.	1.6	115
26	ITER R&D: Auxiliary Systems: Plasma Diagnostics. Fusion Engineering and Design, 2001, 55, 331-346.	1.0	98
27	Sawtooth activity in ohmically heated JET plasmas. Nuclear Fusion, 1986, 26, 1085-1092.	1.6	92
28	Fishbone activity in JET. Nuclear Fusion, 1991, 31, 697-710.	1.6	72
29	Plasma stored energy and momentum losses during large MHD activity in JET. Nuclear Fusion, 1990, 30, 205-218.	1.6	71
30	The physics of the International Thermonuclear Experimental Reactor FEAT. Physics of Plasmas, 2001, 8, 2041-2049.	0.7	63
31	Development of ITER 15%MA ELMy H-mode inductive scenario. Nuclear Fusion, 2009, 49, 085034.	1.6	62
32	The time behaviour of the thermal conductivity during L to H and H to L transitions in JET. Plasma Physics and Controlled Fusion, 1994, 36, A267-A272.	0.9	58
33	Divertor efficiency in ASDEX. Journal of Nuclear Materials, 1982, 111-112, 337-342.	1.3	55
34	A review of the dimensionless parameter scaling studies. Plasma Physics and Controlled Fusion, 1996, 38, A67-A75.	0.9	54
35	Chapter 7: Measurement of plasma parameters. Nuclear Fusion, 1999, 39, 2541-2575.	1.6	51
36	Overview of Alfvén eigenmode experiments in JET. Nuclear Fusion, 1995, 35, 1485-1495.	1.6	47

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37	Chapter 9: ITER contributions for Demo plasma development. Nuclear Fusion, 2007, 47, S404-S413.	1.6	45
38	Observation of TAE activity in JET. Plasma Physics and Controlled Fusion, 1995, 37, 715-722.	0.9	42
39	Long-term fusion strategy in Europe. Journal of Nuclear Materials, 2002, 307-311, 10-20.	1.3	42
40	JET results with the new pumped divertor and implications for ITER. Plasma Physics and Controlled Fusion, 1995, 37, A3-A17.	0.9	40
41	Scrape-off layer based modelling of the density limit in beryllated JET limiter discharges. Nuclear Fusion, 1993, 33, 63-76.	1.6	36
42	Energy confinement in JET ohmically heated plasmas. Nuclear Fusion, 1988, 28, 73-88.	1.6	35
43	Evolution of transport through the L-H transition in JET. Nuclear Fusion, 1995, 35, 505-520.	1.6	35
44	Innovations in Technology and Science R&D for ITER. Journal of Fusion Energy, 2019, 38, 11-71.	0.5	35
45	ICRF studies on JET. Plasma Physics and Controlled Fusion, 1986, 28, 1-15.	0.9	34
46	Self-Sustained Divertor Plasma Oscillations in the JET Tokamak. Physical Review Letters, 1999, 83, 3657-3660.	2.9	34
47	ITER research plan of plasma-wall interaction. Journal of Nuclear Materials, 2009, 390-391, 282-285.	1.3	34
48	Long-Pulse Suprathermal Discharges in the ASDEX Tokamak. Physical Review Letters, 1981, 47, 1004-1007.	2.9	33
49	EU developments of the ITER ECRH system. Fusion Engineering and Design, 2007, 82, 454-462.	1.0	33
50	³ He-d fusion reaction rate measurements during ICRH heating experiments in JET. Nuclear Fusion, 1989, 29, 593-604.	1.6	32
51	Boundary ion temperatures and ion orbit losses in JET. Nuclear Fusion, 1991, 31, 2247-2269.	1.6	32
52	Transport simulation of neutral-beam-heated ASDEX plasma in the L and H regimes. Nuclear Fusion, 1983, 23, 1293-1300.	1.6	31
53	Toroidal field reversal effects on divertor asymmetries in JET. Plasma Physics and Controlled Fusion, 1996, 38, 1579-1592.	0.9	31
54	Latest results from JET. Plasma Physics and Controlled Fusion, 1986, 28, 55-69.	0.9	30

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55	High temperature L- and H-mode confinement in JET. Nuclear Fusion, 1990, 30, 2029-2038.	1.6	29
56	How far is a fusion power reactor from an experimental reactor. Fusion Engineering and Design, 2001, 56-57, 163-172.	1.0	28
57	TBM Program implementation in ITER. Fusion Engineering and Design, 2010, 85, 2005-2011.	1.0	27
58	Plasma resistivity and field penetration in JET. Nuclear Fusion, 1988, 28, 981-990.	1.6	26
59	A new look at JET operation with Be as plasma facing material. Journal of Nuclear Materials, 2005, 337-339, 816-820.	1.3	26
60	Progress and challenges of the ITER TBM Program from the IO perspective. Fusion Engineering and Design, 2016, 109-111, 1491-1497.	1.0	26
61	Simulation of transport in ASDEX divertor discharges with neutral-injection heating. Nuclear Fusion, 1982, 22, 1589-1596.	1.6	25
62	Start up and initial operation of JET. Journal of Nuclear Materials, 1984, 128-129, 10-18.	1.3	25
63	Calculations of power deposition and velocity distributions during ICRH: Comparison with experimental results. Nuclear Fusion, 1989, 29, 87-92.	1.6	25
64	Design optimization for plasma performance and assessment of operation regimes in JT-60SA. Nuclear Fusion, 2007, 47, 1512-1523.	1.6	25
65	Evolution of edge electric field at the L to H transition in JET. Plasma Physics and Controlled Fusion, 1996, 38, 1261-1266.	0.9	23
66	Progress on the heating and current drive systems for ITER. Fusion Engineering and Design, 2009, 84, 125-130.	1.0	23
67	Physics of the conceptual design of the ITER plasma control system. Fusion Engineering and Design, 2014, 89, 507-511.	1.0	23
68	CORSICA modelling of ITER hybrid operation scenarios. Nuclear Fusion, 2016, 56, 126002.	1.6	21
69	Critical Design Issues of the ITER ECH Front Steering Upper Launcher. Fusion Science and Technology, 2008, 53, 139-158.	0.6	20
70	Preface to Special Topic: ITER. Physics of Plasmas, 2015, 22, .	0.7	20
71	JET: Recent results and edge phenomena. Journal of Nuclear Materials, 1987, 145-147, 26-40.	1.3	19
72	Divertor performance on carbon and beryllium targets in JET. Journal of Nuclear Materials, 1992, 196-198, 380-385.	1.3	19

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73	Assessment of plasma parameters for the low activation phase of ITER operation. Nuclear Fusion, 2013, 53, 123026.	1.6	19
74	Modelling one-third field operation in the ITER pre-fusion power operation phase. Nuclear Fusion, 2019, 59, 126014.	1.6	19
75	Studies of D-D fusion reactivity in high temperature JET plasmas. Nuclear Fusion, 1991, 31, 891-905.	1.6	17
76	Comparison between experimental and theoretical conditions for the L-H transition in JET. Plasma Physics and Controlled Fusion, 2000, 42, A199-A204.	0.9	17
77	Low particle confinement H-mode observed during ICRF heating on JET. Nuclear Fusion, 1992, 32, 539-548.	1.6	16
78	Edge operational space for high density/high confinement ELMY H-modes in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1801-1813.	0.9	15
79	Fueling efficiency of gas puffing in ASDEX. Journal of Nuclear Materials, 1982, 111-112, 204-210.	1.3	14
80	Test of a toroidal large area limiter in the ASDEX tokamak. Journal of Nuclear Materials, 1982, 111-112, 317-322.	1.3	13
81	Preliminary ICRF results from JET. Plasma Physics and Controlled Fusion, 1985, 27, 1379-1390.	0.9	13
82	Plasma heating in JET. Plasma Physics and Controlled Fusion, 1986, 28, 1211-1223.	0.9	13
83	Effect of beryllium evaporation on the performance of ICRH on JET. Fusion Engineering and Design, 1990, 12, 245-250.	1.0	13
84	Electron absorption of fast magnetosonic waves by transit time magnetic pumping in JET. Nuclear Fusion, 1990, 30, 2170-2176.	1.6	13
85	Dimensionless pedestal identity experiments in JT-60U and JET in ELMY H-mode plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A195-A205.	0.9	12
86	Chapter 9: Opportunities for reactor scale experimental physics. Nuclear Fusion, 1999, 39, 2627-2638.	1.6	11
87	Prospective performances in JT-60SA towards the ITER and DEMO relevant plasmas. Fusion Engineering and Design, 2007, 82, 541-547.	1.0	11
88	An overview of the iter in-vessel coil systems. , 2009, , .		11
89	Analysis of electron cyclotron emission from non-thermal discharges in ASDEX tokamak. Nuclear Fusion, 1984, 24, 297-304.	1.6	10
90	ICRH-produced H-modes in the JET tokamak. Plasma Physics and Controlled Fusion, 1991, 33, 99-121.	0.9	10

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91	ITER simulation experiments on JET of the H-mode power threshold, confinement scaling and beta saturation. Plasma Physics and Controlled Fusion, 1996, 38, 1237-1242.	0.9	10
92	Studies of reactor-relevant H-mode regimes in the JET-pumped divertor. Plasma Physics and Controlled Fusion, 1996, 38, 1497-1501.	0.9	10
93	Rapid scan phase modulator for interferometric applications. Applied Optics, 1981, 20, 335.	2.1	9
94	Results from the ITER H-mode threshold database. Plasma Physics and Controlled Fusion, 1996, 38, 1279-1282.	0.9	9
95	JET experiments with 120 keV ³ He and ⁴ He neutral beam injection and neutron diagnostic applications. Plasma Physics and Controlled Fusion, 1992, 34, 1371-1378.	0.9	8
96	ITER diagnostic port plug engineering design analysis in the EU. Fusion Engineering and Design, 2007, 82, 1231-1237.	1.0	8
97	H-modes under steady-state conditions in JET. Plasma Physics and Controlled Fusion, 1994, 36, A255-A260.	0.9	7
98	Numerical simulations of feedback control of magnetic field perturbations in JET tokamak. IEEE Transactions on Nuclear Science, 1996, 43, 238.	1.2	7
99	Structural load specification for ITER tokamak components. , 2009, , .		7
100	Physics of Plasma Control Toward Steady-State Operation of ITER. Fusion Science and Technology, 2011, 59, 440-468.	0.6	7
101	The first fusion reactor: ITER. Europhysics News, 2016, 47, 28-31.	0.1	7
102	Studies of electron cyclotron emission from high density discharges in the ASDEX Tokamak. Plasma Physics and Controlled Fusion, 1984, 26, 689-702.	0.9	6
103	Comparison of measured JET divertor performance with edge models. Journal of Nuclear Materials, 1992, 196-198, 392-397.	1.3	6
104	JET/DIII-D size scaling of the H-mode power threshold. Plasma Physics and Controlled Fusion, 1996, 38, 1231-1236.	0.9	6
105	Physics and goals of RTO/RC-ITER. Plasma Physics and Controlled Fusion, 1999, 41, B381-B394.	0.9	6
106	Global and local confinement analysis of JET's VH-mode pulses. Plasma Physics and Controlled Fusion, 1994, 36, A243-A248.	0.9	5
107	MHD and Plasma Control in ITER. Fusion Science and Technology, 2011, 59, 427-439.	0.6	5
108	Density scaling of the threshold for locked mode instability in the presence of toroidal field ripple in a tokamak. Physics of Plasmas, 1997, 4, 4017-4022.	0.7	4

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109	Global influx and impurity behaviour during ICRF heating in JET with beryllium gettering and beryllium limiters. Journal of Nuclear Materials, 1990, 176-177, 387-391.	1.3	3
110	Results of JET operation with continuous carbon and beryllium X-point target plates. Journal of Nuclear Materials, 1992, 196-198, 735-738.	1.3	3
111	H-mode confinement and fusion performance in JET. Plasma Physics and Controlled Fusion, 1997, 39, A285-A293.	0.9	3
112	Report on the 5th European Fusion Physics Workshop, Sesimbra, Portugal, 10-12 December 1997. Plasma Physics and Controlled Fusion, 1999, 41, 133-158.	0.9	3
113	Progress on common aspects of the EU-supplied ITER diagnostics and prediction of diagnostic performance. Review of Scientific Instruments, 2006, 77, 10F502.	0.6	3
114	The control system for the disruption stabilisation experiment in JET. IEEE Transactions on Nuclear Science, 1996, 43, 207.	1.2	2
115	Control, detection and mitigation of disruptions on ITER. , 2015, , .		2
116	27th IAEA Fusion Energy Conference: summary of sessions EX/C, EX/S and PPC. Nuclear Fusion, 2020, 60, 027001.	1.6	1
117	Title is missing!. Plasma Physics and Controlled Fusion, 2001, 43, 603-628.	0.9	0
118	Report on the 8th European Fusion Physics Workshop, Leysin, Switzerland, 13-15 December 2000. Plasma Physics and Controlled Fusion, 2001, 43, 985-999.	0.9	0
119	Report on the 9th European Fusion Physics Workshop*. Plasma Physics and Controlled Fusion, 2003, 45, 505-520.	0.9	0
120	Report on the 10th European Fusion Physics Workshop (Vaals, The Netherlands, 9â€“11 December 2002). Plasma Physics and Controlled Fusion, 2003, 45, 1051-1067.	0.9	0
121	Report on the 11th European Fusion Physics Workshop (Heraklion, Crete, 8â€“10 December 2003). Plasma Physics and Controlled Fusion, 2005, 47, 1351-1366.	0.9	0
122	Basic Research of Tritium Confinement. , 2009, , .		0