David Campbell

List of Publications by Year
in descending order

122 papers	11,313 citations	81839 39 h-index	27389 106 g-index
122 all docs	122 docs citations	122 times ranked	3680 citing authors

#	Article	IF	Citations
1	27th IAEA Fusion Energy Conference: summary of sessions EX/C, EX/S and PPC. Nuclear Fusion, 2020, 60, 027001.	1.6	1
2	Modelling one-third field operation in the ITER pre-fusion power operation phase. Nuclear Fusion, 2019, 59, 126014.	1.6	19
3	Innovations in Technology and Science R&D for ITER. Journal of Fusion Energy, 2019, 38, 11-71.	0.5	35
4	The first fusion reactor: ITER. Europhysics News, 2016, 47, 28-31.	0.1	7
5	CORSICA modelling of ITER hybrid operation scenarios. Nuclear Fusion, 2016, 56, 126002.	1.6	21
6	Progress and challenges of the ITER TBM Program from the IO perspective. Fusion Engineering and Design, 2016, 109-111, 1491-1497.	1.0	26
7	Control, detection and mitigation of disruptions on ITER. , 2015, , .		2
8	Disruptions in ITER and strategies for their control and mitigation. Journal of Nuclear Materials, 2015, 463, 39-48.	1.3	274
9	Preface to Special Topic: ITER. Physics of Plasmas, 2015, 22, .	0.7	20
10	Progress on the application of ELM control schemes to ITER scenarios from the non-active phase to DT operation. Nuclear Fusion, 2014, 54, 033007.	1.6	214
11	Physics of the conceptual design of the ITER plasma control system. Fusion Engineering and Design, 2014, 89, 507-511.	1.0	23
12	Assessment of plasma parameters for the low activation phase of ITER operation. Nuclear Fusion, 2013, 53, 123026.	1.6	19
13	Overview of the ITER TBM Program. Fusion Engineering and Design, 2012, 87, 395-402.	1.0	193
14	MHD and Plasma Control in ITER. Fusion Science and Technology, 2011, 59, 427-439.	0.6	5
15	Physics of Plasma Control Toward Steady-State Operation of ITER. Fusion Science and Technology, 2011, 59, 440-468.	0.6	7
16	TBM Program implementation in ITER. Fusion Engineering and Design, 2010, 85, 2005-2011.	1.0	27
17	ITER plasma-facing components. Fusion Engineering and Design, 2010, 85, 2312-2322.	1.0	144
18	Structural load specification for ITER tokamak components. , 2009, , .		7

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19	Basic Research of Tritium Confinement. , 2009, , .		0
20	Development of ITER 15â€‰MA ELMy H-mode inductive scenario. Nuclear Fusion, 2009, 49, 085034.	1.6	62
21	Progress on the heating and current drive systems for ITER. Fusion Engineering and Design, 2009, 84, 125-130.	1.0	23
22	ITER research plan of plasmaâ€“wall interaction. Journal of Nuclear Materials, 2009, 390-391, 282-285.	1.3	34
23	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	1.6	200
24	An overview of the iter in-vessel coil systems. , 2009, , .		11
25	Critical Design Issues of the ITER ECH Front Steering Upper Launcher. Fusion Science and Technology, 2008, 53, 139-158.	0.6	20
26	Design optimization for plasma performance and assessment of operation regimes in JT-60SA. Nuclear Fusion, 2007, 47, 1512-1523.	1.6	25
27	Power plant conceptual studies in Europe. Nuclear Fusion, 2007, 47, 1524-1532.	1.6	198
28	Chapter 1: Overview and summary. Nuclear Fusion, 2007, 47, S1-S17.	1.6	714
29	Chapter 9: ITER contributions for Demo plasma development. Nuclear Fusion, 2007, 47, S404-S413.	1.6	45
30	EU developments of the ITER ECRH system. Fusion Engineering and Design, 2007, 82, 454-462.	1.0	33
31	Prospective performances in JT-60SA towards the ITER and DEMO relevant plasmas. Fusion Engineering and Design, 2007, 82, 541-547.	1.0	11
32	ITER diagnostic port plug engineering design analysis in the EU. Fusion Engineering and Design, 2007, 82, 1231-1237.	1.0	8
33	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
34	A new look at JET operation with Be as plasma facing material. Journal of Nuclear Materials, 2005, 337-339, 816-820.	1.3	26
35	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
36	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

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37	Characteristics of type I ELM energy and particle losses in existing devices and their extrapolation to ITER. Plasma Physics and Controlled Fusion, 2003, 45, 1549-1569.	0.9	487
38	Report on the 9th European Fusion Physics Workshop*. Plasma Physics and Controlled Fusion, 2003, 45, 505-520.	0.9	0
39	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
40	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
41	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
42	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
43	Long-term fusion strategy in Europe. Journal of Nuclear Materials, 2002, 307-311, 10-20.	1.3	42
44	The physics of the International Thermonuclear Experimental Reactor FEAT. Physics of Plasmas, 2001, 8, 2041-2049.	0.7	63
45	ITER R&D: Auxiliary Systems: Plasma Diagnostics. Fusion Engineering and Design, 2001, 55, 331-346.	1.0	98
46	How far is a fusion power reactor from an experimental reactor. Fusion Engineering and Design, 2001, 56-57, 163-172.	1.0	28
47	Title is missing!. Plasma Physics and Controlled Fusion, 2001, 43, 603-628.	0.9	0
48	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
49	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
50	Physics and goals of RTO/RC-ITER. Plasma Physics and Controlled Fusion, 1999, 41, B381-B394.	0.9	6
51	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
52	Self-Sustained Divertor Plasma Oscillations in the JET Tokamak. Physical Review Letters, 1999, 83, 3657-3660.	2.9	34
53	Chapter 3: MHD stability, operational limits and disruptions. Nuclear Fusion, 1999, 39, 2251-2389.	1.6	283
54	Chapter 4: Power and particle control. Nuclear Fusion, 1999, 39, 2391-2469.	1.6	285

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55	Chapter 6: Plasma auxiliary heating and current drive. Nuclear Fusion, 1999, 39, 2495-2539.	1.6	163
56	Chapter 9: Opportunities for reactor scale experimental physics. Nuclear Fusion, 1999, 39, 2627-2638.	1.6	11
57	Chapter 1: Overview and summary. Nuclear Fusion, 1999, 39, 2137-2174.	1.6	990
58	Chapter 2: Plasma confinement and transport. Nuclear Fusion, 1999, 39, 2175-2249.	1.6	887
59	Chapter 7: Measurement of plasma parameters. Nuclear Fusion, 1999, 39, 2541-2575.	1.6	51
60	Plasma detachment in JET Mark I divertor experiments. Nuclear Fusion, 1998, 38, 331-371.	1.6	282
61	H-mode confinement and fusion performance in JET. Plasma Physics and Controlled Fusion, 1997, 39, A285-A293.	0.9	3
62	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
63	The control system for the disruption stabilisation experiment in JET. IEEE Transactions on Nuclear Science, 1996, 43, 207.	1.2	2
64	Numerical simulations of feedback control of magnetic field perturbations in JET tokamak. IEEE Transactions on Nuclear Science, 1996, 43, 238.	1.2	7
65	H mode power threshold database for ITER. Nuclear Fusion, 1996, 36, 1217-1264.	1.6	116
66	A review of the dimensionless parameter scaling studies. Plasma Physics and Controlled Fusion, 1996, 38, A67-A75.	0.9	54
67	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
68	Toroidal field reversal effects on divertor asymmetries in JET. Plasma Physics and Controlled Fusion, 1996, 38, 1579-1592.	0.9	31
69	Studies of reactor-relevant H-mode regimes in the JET-pumped divertor. Plasma Physics and Controlled Fusion, 1996, 38, 1497-1501.	0.9	10
70	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
71	Results from the ITER H-mode threshold database. Plasma Physics and Controlled Fusion, 1996, 38, 1279-1282.	0.9	9
72	JET/DIII-D size scaling of the H-mode power threshold. Plasma Physics and Controlled Fusion, 1996, 38, 1231-1236.	0.9	6

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73	Direct Measurement of the Damping of Toroidicity-Induced AlfvÃ©n Eigenmodes. Physical Review Letters, 1995, 75, 645-648.	2.9	125
74	Observation of TAE activity in JET. Plasma Physics and Controlled Fusion, 1995, 37, 715-722.	0.9	42
75	Overview of Alfven eigenmode experiments in JET. Nuclear Fusion, 1995, 35, 1485-1495.	1.6	47
76	Evolution of transport through the L-H transition in JET. Nuclear Fusion, 1995, 35, 505-520.	1.6	35
77	JET results with the new pumped divertor and implications for ITER. Plasma Physics and Controlled Fusion, 1995, 37, A3-A17.	0.9	40
78	Global and local confinement analysis of JET's VH-mode pulses. Plasma Physics and Controlled Fusion, 1994, 36, A243-A248.	0.9	5
79	H-modes under steady-state conditions in JET. Plasma Physics and Controlled Fusion, 1994, 36, A255-A260.	0.9	7
80	ITER H mode confinement database update. Nuclear Fusion, 1994, 34, 131-167.	1.6	115
81	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
82	Scrape-off layer based modelling of the density limit in beryllated JET limiter discharges. Nuclear Fusion, 1993, 33, 63-76.	1.6	36
83	Low particle confinement H-mode observed during ICRF heating on JET. Nuclear Fusion, 1992, 32, 539-548.	1.6	16
84	JET experiments with 120 keV3He and4He neutral beam injection and neutron diagnostic applications. Plasma Physics and Controlled Fusion, 1992, 34, 1371-1378.	0.9	8
85	Fusion energy production from a deuterium-tritium plasma in the JET tokamak. Nuclear Fusion, 1992, 32, 187-203.	1.6	334
86	Divertor performance on carbon and beryllium targets in JET. Journal of Nuclear Materials, 1992, 196-198, 380-385.	1.3	19
87	Comparison of measured JET divertor performance with edge models. Journal of Nuclear Materials, 1992, 196-198, 392-397.	1.3	6
88	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
89	Boundary ion temperatures and ion orbit losses in JET. Nuclear Fusion, 1991, 31, 2247-2269.	1.6	32
90	Studies of D-D fusion reactivity in high temperature JET plasmas. Nuclear Fusion, 1991, 31, 891-905.	1.6	17

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91	ICRH-produced H-modes in the JET tokamak. Plasma Physics and Controlled Fusion, 1991, 33, 99-121.	0.9	10
92	Fishbone activity in JET. Nuclear Fusion, 1991, 31, 697-710.	1.6	72
93	Effect of beryllium evaporation on the performance of ICRH on JET. Fusion Engineering and Design, 1990, 12, 245-250.	1.0	13
94	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
95	High temperature L- and H-mode confinement in JET. Nuclear Fusion, 1990, 30, 2029-2038.	1.6	29
96	Electron absorption of fast magnetosonic waves by transit time magnetic pumping in JET. Nuclear Fusion, 1990, 30, 2170-2176.	1.6	13
97	Plasma stored energy and momentum losses during large MHD activity in JET. Nuclear Fusion, 1990, 30, 205-218.	1.6	71
98	³He-d fusion reaction rate measurements during ICRH heating experiments in JET. Nuclear Fusion, 1989, 29, 593-604.	1.6	32
99	Calculations of power deposition and velocity distributions during ICRH: Comparison with experimental results. Nuclear Fusion, 1989, 29, 87-92.	1.6	25
100	Disruptions in JET. Nuclear Fusion, 1989, 29, 641-666.	1.6	399
101	Large amplitude quasi-stationary MHD modes in JET. Nuclear Fusion, 1988, 28, 1085-1097.	1.6	117
102	Stabilization of Sawteeth with Additional Heating in the JET Tokamak. Physical Review Letters, 1988, 60, 2148-2151.	2.9	194
103	Energy confinement in JET ohmically heated plasmas. Nuclear Fusion, 1988, 28, 73-88.	1.6	35
104	Plasma resistivity and field penetration in JET. Nuclear Fusion, 1988, 28, 981-990.	1.6	26
105	JET: Recent results and edge phenomena. Journal of Nuclear Materials, 1987, 145-147, 26-40.	1.3	19
106	Sawtooth activity in ohmically heated JET plasmas. Nuclear Fusion, 1986, 26, 1085-1092.	1.6	92
107	Plasma heating in JET. Plasma Physics and Controlled Fusion, 1986, 28, 1211-1223.	0.9	13
108	ICRF studies on JET. Plasma Physics and Controlled Fusion, 1986, 28, 1-15.	0.9	34

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109	Latest results from JET. Plasma Physics and Controlled Fusion, 1986, 28, 55-69.	0.9	30
110	Rapid Collapse of a Plasma Sawtooth Oscillation in the JET Tokamak. Physical Review Letters, 1986, 57, 210-213.	2.9	186
111	Preliminary ICRF results from JET. Plasma Physics and Controlled Fusion, 1985, 27, 1379-1390.	0.9	13
112	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
113	Analysis of electron cyclotron emission from non-thermal discharges in ASDEX tokamak. Nuclear Fusion, 1984, 24, 297-304.	1.6	10
114	Start up and initial operation of JET. Journal of Nuclear Materials, 1984, 128-129, 10-18.	1.3	25
115	Transport simulation of neutral-beam-heated ASDEX plasma in the L and H regimes. Nuclear Fusion, 1983, 23, 1293-1300.	1.6	31
116	Simulation of transport in ASDEX divertor discharges with neutral-injection heating. Nuclear Fusion, 1982, 22, 1589-1596.	1.6	25
117	Regime of Improved Confinement and High Beta in Neutral-Beam-Heated Divertor Discharges of the ASDEX Tokamak. Physical Review Letters, 1982, 49, 1408-1412.	2.9	1,941
118	Fueling efficiency of gas puffing in ASDEX. Journal of Nuclear Materials, 1982, 111-112, 204-210.	1.3	14
119	Test of a toroidal large area limiter in the ASDEX tokamak. Journal of Nuclear Materials, 1982, 111-112, 317-322.	1.3	13
120	Divertor efficiency in ASDEX. Journal of Nuclear Materials, 1982, 111-112, 337-342.	1.3	55
121	Rapid scan phase modulator for interferometric applications. Applied Optics, 1981, 20, 335.	2.1	9
122	Long-Pulse Suprathermal Discharges in the ASDEX Tokamak. Physical Review Letters, 1981, 47, 1004-1007.	2.9	33