

# W Fundamenski

## List of Publications by Year in descending order

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128  
papers

6,914  
citations

76326

40  
h-index

64796

79  
g-index

128  
all docs

128  
docs citations

128  
times ranked

2455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 4: Power and particle control. Nuclear Fusion, 2007, 47, S203-S263.	3.5	891
2	Active Control of Type-I Edge-Localized Modes with $n=1$ Perturbation Fields in the JET Tokamak. Physical Review Letters, 2007, 98, 265004.	7.8	506
3	Scaling of the tokamak near the scrape-off layer H-mode power width and implications for ITER. Nuclear Fusion, 2013, 53, 093031.	3.5	448
4	Inter-ELM Power Decay Length for JET and ASDEX Upgrade: Measurement and Comparison with Heuristic Drift-Based Model. Physical Review Letters, 2011, 107, 215001.	7.8	370
5	Plasma-surface interaction, scrape-off layer and divertor physics: implications for ITER. Nuclear Fusion, 2007, 47, 1189-1205.	3.5	156
6	Fluctuations and transport in the TCV scrape-off layer. Nuclear Fusion, 2007, 47, 667-676.	3.5	147
7	Radial interchange motions of plasma filaments. Physics of Plasmas, 2006, 13, 082309.	1.9	142
8	Overview of the results on divertor heat loads in RMP controlled H-mode plasmas on DIII-D. Nuclear Fusion, 2009, 49, 095013.	3.5	136
9	Interchange turbulence in the TCV scrape-off layer. Plasma Physics and Controlled Fusion, 2006, 48, L1-L10.	2.1	135
10	A model of ELM filament energy evolution due to parallel losses. Plasma Physics and Controlled Fusion, 2006, 48, 109-156.	2.1	135
11	Transient heat loads in current fusion experiments, extrapolation to ITER and consequences for its operation. Physica Scripta, 2007, T128, 222-228.	2.5	124
12	Material erosion and migration in tokamaks. Plasma Physics and Controlled Fusion, 2005, 47, B303-B322.	2.1	105
13	Characterization of pedestal parameters and edge localized mode energy losses in the Joint European Torus and predictions for the International Thermonuclear Experimental Reactor. Physics of Plasmas, 2004, 11, 2668-2678.	1.9	104
14	Edge and divertor physics with reversed toroidal field in JET. Journal of Nuclear Materials, 2005, 337-339, 146-153.	2.7	96
15	Parallel heat flux limits in the tokamak scrape-off layer. Plasma Physics and Controlled Fusion, 2005, 47, R163-R208.	2.1	94
16	A comparison of experimental measurements and code results to determine flows in the JET SOL. Plasma Physics and Controlled Fusion, 2004, 46, 1757-1780.	2.1	92
17	Reduction of divertor heat load in JET ELMy H-modes using impurity seeding techniques. Nuclear Fusion, 2004, 44, 312-319.	3.5	91
18	Type-I ELM power deposition profile width and temporal shape in JET. Journal of Nuclear Materials, 2011, 415, S856-S859.	2.7	90

#	ARTICLE	IF	CITATIONS
19	Active control of type-I edge localized modes with $n=1$ and $n=2$ fields on JET. Nuclear Fusion, 2010, 50, 025013.	3.5	86
20	Spectral broadening of lower hybrid waves produced by parametric instability in current drive experiments of tokamak plasmas. Nuclear Fusion, 2006, 46, 462-476.	3.5	85
21	ELM transport in the JET scrape-off layer. Nuclear Fusion, 2007, 47, 1437-1448.	3.5	84
22	Dissipative processes in interchange driven scrape-off layer turbulence. Nuclear Fusion, 2007, 47, 417-433.	3.5	83
23	Blob/hole formation and zonal-flow generation in the edge plasma of the JET tokamak. Nuclear Fusion, 2009, 49, 092002.	3.5	81
24	Power deposition onto plasma facing components in poloidal divertor tokamaks during type-I ELMs and disruptions. Journal of Nuclear Materials, 2005, 337-339, 669-676.	2.7	76
25	ELM resolved energy distribution studies in the JET MKII Gas-Box divertor using infra-red thermography. Plasma Physics and Controlled Fusion, 2007, 49, 573-604.	2.1	75
26	Upgraded bolometer system on JET for improved radiation measurements. Fusion Engineering and Design, 2007, 82, 1327-1334.	1.9	73
27	Far SOL ELM ion energies in JET. Nuclear Fusion, 2006, 46, 82-98.	3.5	61
28	Radial propagation of Type-I ELMs on JET. Plasma Physics and Controlled Fusion, 2004, 46, 233-259.	2.1	60
29	Parallel SOL flow on TCV. Journal of Nuclear Materials, 2007, 363-365, 505-510.	2.7	59
30	Modelling of beryllium erosion/redeposition on ITER first wall panels. Journal of Nuclear Materials, 2011, 415, S165-S169.	2.7	57
31	Active control of type-I edge localized modes on JET. Plasma Physics and Controlled Fusion, 2007, 49, B581-B589.	2.1	54
32	ELMy H-modes in JET helium-4 plasmas. Plasma Physics and Controlled Fusion, 2004, 46, 519-534.	2.1	50
33	On Kinetic Effects during Parallel Transport in the SOL. Contributions To Plasma Physics, 2008, 48, 89-93.	1.1	46
34	Strongly radiating type-III ELMy H-mode in JET – an integrated scenario for ITER. Journal of Nuclear Materials, 2005, 337-339, 826-830.	2.7	45
35	On the relationship between ELM filaments and solar flares. Plasma Physics and Controlled Fusion, 2007, 49, R43-R86.	2.1	44
36	Pedestal and ELM response to impurity seeding in JET advanced scenario plasmas. Nuclear Fusion, 2008, 48, 095004.	3.5	44

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37	Interpretation of divertor Langmuir probe measurements during the ELMs at JET. <i>Journal of Nuclear Materials</i> , 2011, 415, S860-S864.	2.7	44
38	Survey of Type I ELM dynamics measurements. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, A149-A162.	2.1	43
39	Quasineutral plasma expansion into infinite vacuum as a model for parallel ELM transport. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 085003.	2.1	43
40	On the asymmetries of ELM divertor power deposition in JET and ASDEX Upgrade. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 760-763.	2.7	42
41	A possible role of radial electric field in driving parallel ion flow in scrape-off layer of divertor tokamaks. <i>Nuclear Fusion</i> , 2007, 47, 762-772.	3.5	39
42	Discrepancy between modelled and measured radial electric fields in the scrape-off layer of divertor tokamaks: a challenge for 2D fluid codes?. <i>Nuclear Fusion</i> , 2007, 47, 479-489.	3.5	38
43	Intermittent convective transport carried by propagating electromagnetic filamentary structures in nonuniformly magnetized plasma. <i>Physics of Plasmas</i> , 2010, 17, 022501.	1.9	38
44	Experimental and numerical characterization of the turbulence in the scrape-off layer of MAST. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 025005.	2.1	38
45	Boundary plasma energy transport in JET ELMy H-modes. <i>Nuclear Fusion</i> , 2004, 44, 20-32.	3.5	37
46	ELM-averaged power exhaust on JET. <i>Nuclear Fusion</i> , 2005, 45, 950-975.	3.5	37
47	JET carbon screening experiments using methane gas puffing and its relation to intrinsic carbon impurities. <i>Nuclear Fusion</i> , 2003, 43, 922-941.	3.5	36
48	Integrated scenario with type-III ELMy H-mode edge: extrapolation to ITER. <i>Nuclear Fusion</i> , 2009, 49, 095012.	3.5	36
49	Simulations of edge and scrape off layer turbulence in mega ampere spherical tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 095011.	2.1	36
50	Reconstruction of power deposition profiles using JET MkIIIGB thermocouple data for ELMy H-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, 881-906.	2.1	35
51	Divertor energy distribution in JET H-modes. <i>Journal of Nuclear Materials</i> , 2001, 290-293, 668-672.	2.7	33
52	Development of steady-state scenarios compatible with ITER-like wall conditions. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B529-B550.	2.1	33
53	Kinetic simulations of the parallel transport in the JET scrape-off layer. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 335-338.	2.7	33
54	Simple relations between scrape-off layer parameters of high recycling divertors Part I: The relation between 'upstream' density and temperature. <i>Nuclear Fusion</i> , 2000, 40, 295-308.	3.5	32

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55	The impact of large ELMs on JET. Journal of Nuclear Materials, 2009, 390-391, 755-759.	2.7	32
56	Dynamics of erosion and deposition in tokamaks. Journal of Nuclear Materials, 2009, 390-391, 38-43.	2.7	31
57	Multi-parameter scaling of divertor power load profiles in D, H and He plasmas on JET and implications for ITER. Nuclear Fusion, 2011, 51, 083028.	3.5	31
58	EDGE2D code simulations of SOL flows and inâ€out divertor asymmetries in JET. Journal of Nuclear Materials, 2005, 337-339, 271-275.	2.7	29
59	Heat loads on plasma facing components during disruptions on JET. Nuclear Fusion, 2009, 49, 085038.	3.5	29
60	Overview of experimental preparation for the ITER-Like Wall at JET. Journal of Nuclear Materials, 2011, 415, S936-S942.	2.7	29
61	Chemical erosion yields and photon efficiency measurements in the JET gas box divertor. Journal of Nuclear Materials, 2001, 290-293, 321-325.	2.7	27
62	Improved radiation measurements on JET â€ First results from an upgraded bolometer system. Journal of Nuclear Materials, 2007, 363-365, 365-370.	2.7	27
63	Nonlinear Impact of Edge Localized Modes on Carbon Erosion in the Divertor of the JET Tokamak. Physical Review Letters, 2009, 102, 045007.	7.8	27
64	Pedestal and scrape-off layer dynamics in ELMy H-mode plasmas in JET. Nuclear Fusion, 2009, 49, 125006.	3.5	27
65	Enhancement of plasma burn-through simulation and validation in JET. Nuclear Fusion, 2012, 52, 103016.	3.5	27
66	Power load characterization for type-I ELMy H-modes in JET. Nuclear Fusion, 2011, 51, 123001.	3.5	26
67	In situ measurement of hydrogen retention in JET carbon tiles. Journal of Nuclear Materials, 2001, 290-293, 496-500.	2.7	25
68	Reciprocating probe measurements of ELM filaments on JET. Plasma Physics and Controlled Fusion, 2009, 51, 105001.	2.1	25
69	Energy flow during disruptions in JET. Journal of Nuclear Materials, 2005, 337-339, 702-706.	2.7	23
70	The effect of field reversal on the JET MkIIIGB-SRP divertor performance in L-mode density limit discharges. Journal of Nuclear Materials, 2005, 337-339, 241-245.	2.7	23
71	Power and particle exhaust in tokamaks: Integration of plasma scenarios with plasma facing materials and components. Journal of Nuclear Materials, 2009, 390-391, 10-19.	2.7	23
72	Integrated modelling of a JET type-I ELMy H-mode pulse and predictions for ITER-like wall scenarios. Plasma Physics and Controlled Fusion, 2011, 53, 124039.	2.1	23

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73	Multi-machine comparison of drift fluid dimensionless parameters. Plasma Physics and Controlled Fusion, 2011, 53, 095002.	2.1	23
74	A CFD onion-skin model for the interpretation of edge experiments. Journal of Nuclear Materials, 1999, 266-269, 1045-1050.	2.7	22
75	Heat load measurements on the JET first wall during disruptions. Journal of Nuclear Materials, 2011, 415, S817-S820.	2.7	22
76	Overview of physics results from MAST towards ITER/DEMO and the MAST Upgrade. Nuclear Fusion, 2013, 53, 104008.	3.5	21
77	Interpretation of recent power width measurements in JET MkIIIGB ELMy H-modes. Plasma Physics and Controlled Fusion, 2002, 44, 761-793.	2.1	20
78	Effect of $B_{\text{pol}} - \hat{a} \hat{z} B$ direction on SOL energy transport in JET. Journal of Nuclear Materials, 2005, 337-339, 305-309.	2.7	20
79	Comparison of fluid and kinetic models of target energy fluxes during edge localized modes. Plasma Physics and Controlled Fusion, 2012, 54, 045002.	2.1	20
80	Parallel SOL transport in MAST and JET: the impact of the mirror force. Plasma Physics and Controlled Fusion, 2003, 45, 1445-1463.	2.1	19
81	Septum assessment of the JET gas box divertor. Plasma Physics and Controlled Fusion, 2008, 50, 095015.	2.1	19
82	Intermittent transport in the JET far-SOL. Journal of Nuclear Materials, 2009, 390-391, 355-358.	2.7	19
83	Moderation of divertor heat loads by fuelling and impurity seeding in well-confined ELMy H-mode plasmas on JET. Nuclear Fusion, 2011, 51, 042001.	3.5	19
84	Investigation of conventional and Super-X divertor configurations of MAST Upgrade using scrape-off layer plasma simulation. Plasma Physics and Controlled Fusion, 2014, 56, 075008.	2.1	19
85	Prospects for steady-state scenarios on JET. Nuclear Fusion, 2007, 47, 1285-1292.	3.5	18
86	Radiation loads onto plasma-facing components of JET during transient events – Experimental results and implications for ITER. Journal of Nuclear Materials, 2011, 415, S821-S827.	2.7	18
87	Analysis of SOL behaviour in JET MkIIIGB using an advanced onion-skin solver (OSM2). Journal of Nuclear Materials, 2001, 290-293, 593-597.	2.7	17
88	ELM-wall interaction on JET and ITER. Journal of Nuclear Materials, 2007, 363-365, 319-324.	2.7	17
89	Modelling of tungsten and beryllium dust in ITER. Plasma Physics and Controlled Fusion, 2012, 54, 085010.	2.1	17
90	Helium and neon enrichment studies in the JET Mark IIAP and Mark IIGB divertors. Nuclear Fusion, 2002, 42, 591-600.	3.5	16

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91	Plasma radiation distribution and radiation loads onto the vessel during transient events in JET. Journal of Nuclear Materials, 2009, 390-391, 830-834.	2.7	16
92	Power and particle fluxes to plasma-facing components in mitigated-ELM H-mode discharges on JET. Journal of Nuclear Materials, 2011, 415, S894-S900.	2.7	16
93	Type-I ELM filamentary substructure on the JET divertor target. Journal of Nuclear Materials, 2011, 415, S865-S868.	2.7	16
94	Simulation with the COREDIV code of nitrogen-seeded H-mode discharges at JET. Plasma Physics and Controlled Fusion, 2011, 53, 115002.	2.1	16
95	Particle recirculation studies in JET. Plasma Physics and Controlled Fusion, 2002, 44, 701-715.	2.1	15
96	Moderation of target loads using fuelling and impurity seeding on JET. Journal of Nuclear Materials, 2011, 415, S313-S317.	2.7	15
97	The effect of plasma fluctuations on parallel transport parameters in the SOL. Journal of Nuclear Materials, 2011, 415, S471-S474.	2.7	15
98	Benchmarking of a 1D scrape-off layer code SOLF1D with SOLPS and its use in modelling long-legged divertors. Plasma Physics and Controlled Fusion, 2013, 55, 065004.	2.1	15
99	Narrow power profiles seen at JET and their relation to ion orbit losses. Journal of Nuclear Materials, 2003, 313-316, 787-795.	2.7	14
100	Steady-state and transient power handling in JET. Nuclear Fusion, 2003, 43, 999-1005.	3.5	14
101	Comparison of the spatial and temporal structure of type-I ELMs. Journal of Physics: Conference Series, 2008, 123, 012011.	0.4	14
102	Fluid code simulations of radial electric field in the scrape-off layer of JET. Plasma Physics and Controlled Fusion, 2009, 51, 065022.	2.1	14
103	Steady-state and time-dependent modelling of parallel transport in the scrape-off layer. Plasma Physics and Controlled Fusion, 2011, 53, 065004.	2.1	14
104	Numerical studies of effects associated with the Super-X divertor on target parameters in MAST-U. Journal of Nuclear Materials, 2013, 438, S545-S549.	2.7	14
105	Simple relations between scrape-off layer parameters of high recycling divertors Part II: Further relations. Nuclear Fusion, 2000, 40, 309-317.	3.5	13
106	Chapter 6: Scrape-Off Layer Transport on JET. Fusion Science and Technology, 2008, 53, 1023-1063.	1.1	13
107	Highly radiating type-III ELMy H-mode with low plasma core pollution. Journal of Nuclear Materials, 2009, 390-391, 238-241.	2.7	12
108	The effect of CD4 puffing on the peripheral scrape-off layer in JET. Plasma Physics and Controlled Fusion, 2002, 44, 689-699.	2.1	11

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109	ELM filament interaction with the JET main chamber. Journal of Nuclear Materials, 2009, 390-391, 781-784.	2.7	11
110	PSI effects on plasma burn-through in JET. Journal of Nuclear Materials, 2013, 438, S1271-S1274.	2.7	11
111	An overview of JET edge modelling activities. Journal of Nuclear Materials, 2003, 313-316, 868-872.	2.7	10
112	Integrated ELM Modelling. Contributions To Plasma Physics, 2006, 46, 726-738.	1.1	10
113	Modelling of ELM-averaged power exhaust on JET using the EDGE2D code with variable transport coefficients. Plasma Physics and Controlled Fusion, 2007, 49, 689-701.	2.1	10
114	JET methane screening experiments. Journal of Nuclear Materials, 2001, 290-293, 972-975.	2.7	9
115	Monte Carlo simulations of the heat load asymmetries on JET divertor plates. Nuclear Fusion, 2002, 42, 725-732.	3.5	9
116	Integrated Modelling with COCONUT of Type-I ELMs at JET. Contributions To Plasma Physics, 2008, 48, 201-206.	1.1	9
117	Divertor particle and power deposition profiles in JET ELMy H-mode discharges. Journal of Nuclear Materials, 2007, 363-365, 1050-1055.	2.7	8
118	Code-code comparisons of DIVIMP's "ion-skin model" and the EDGE2D fluid code. Journal of Nuclear Materials, 1997, 241-243, 358-362.	2.7	7
119	Effect of external perturbation fields on divertor particle and heat loads during ELMs at JET. Journal of Nuclear Materials, 2009, 390-391, 768-772.	2.7	7
120	Deuterium to helium plasma-wall change-over experiments in the JET MkII-gas box divertor. Journal of Nuclear Materials, 2003, 313-316, 1061-1065.	2.7	6
121	The effect of ion orbit losses on JET edge plasma simulations. Journal of Nuclear Materials, 2003, 313-316, 986-989.	2.7	5
122	Noble gas enrichment studies at JET. Journal of Nuclear Materials, 2001, 290-293, 867-871.	2.7	4
123	Numerical investigation of Scrape Off Layer anomalous particle transport for MAST parameters. Journal of Nuclear Materials, 2013, 438, S530-S535.	2.7	4
124	Progress in Edge Plasma Transport Modeling on JET. Contributions To Plasma Physics, 2008, 48, 190-195.	1.1	3
125	Divertor heat load in ITER-like advanced tokamak scenarios on JET. Journal of Nuclear Materials, 2009, 390-391, 263-266.	2.7	3
126	Numerical simulation of hydrogenic and impurity flows in the boundary plasma on JET. Plasma Physics and Controlled Fusion, 2008, 50, 085003.	2.1	2



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127	Recent Developments in Monte Carlo Codes for Edge Plasma Studies. Contributions To Plasma Physics, 2002, 42, 145-156.	1.1	1
128	Effect of neutrals on the power decay length at the divertor target. Journal of Nuclear Materials, 2011, 415, S562-S565.	2.7	0