Alberto Loarte

List of Publications by Year
in descending order

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221 papers	13,314 citations	25034 57 h-index	25787 108 g-index
221 all docs	221 docs citations	221 times ranked	4059 citing authors

#	Article	IF	Citations
1	Overview of the COMPASS results [*]. Nuclear Fusion, 2022, 62, 042021.	3.5	7
2	Non-linear MHD modelling of edge localized modes suppression by resonant magnetic perturbations in ITER. Nuclear Fusion, 2022, 62, 066022.	3.5	9
3	Recent progress in Lâ€“H transition studies at JET: tritium, helium, hydrogen and deuterium. Nuclear Fusion, 2022, 62, 076026.	3.5	15
4	Non-axisymmetric MHD simulations of the current quench phase of ITER mitigated disruptions. Nuclear Fusion, 2022, 62, 056023.	3.5	15
5	Toward holistic understanding of the ITER-like resonant magnetic perturbation (RMP) ELM control on KSTAR. Nuclear Fusion, 2022, 62, 066014.	3.5	1
6	Loss of energetic particles due to resistive wall mode instability in ITER. Nuclear Fusion, 2022, 62, 066011.	3.5	3
7	Quasi-linear toroidal simulations of resonant magnetic perturbations in eight ITER H-mode scenarios. Nuclear Fusion, 2022, 62, 096008.	3.5	3
8	Current density limitation during disruptions due to plasma-sheaths. Nuclear Fusion, 2022, 62, 086034.	3.5	4
9	First wall power flux management during plasma current ramp-up on ITER. Nuclear Fusion, 2022, 62, 096022.	3.5	1
10	Constructing a new predictive scaling formula for ITER's divertor heat-load width informed by a simulation-anchored machine learning. Physics of Plasmas, 2021, 28, .	1.9	22
11	Optimizing beam-ion confinement in ITER by adjusting the toroidal phase of the 3D magnetic fields applied for ELM control. Nuclear Fusion, 2021, 61, 046006.	3.5	15
12	Property of neoclassical GAMs induced by pellet generated plasma perturbations in the gyrokinetic code XGC. Physics of Plasmas, 2021, 28, 044501.	1.9	0
13	Simulations of COMPASS vertical displacement events with a self-consistent model for halo currents including neutrals and sheath boundary conditions. Plasma Physics and Controlled Fusion, 2021, 63, 064004.	2.1	11
14	H-mode plasmas in the pre-fusion power operation 1 phase of the ITER research plan. Nuclear Fusion, 2021, 61, 076012.	3.5	14
15	Impact of suprathermal ions on neutron yield in the pre-DT phase of ITER operation. Nuclear Fusion, 2021, 61, 076008.	3.5	8
16	First demonstration of full ELM suppression in low input torque plasmas to support ITER research plan using n = 4 RMP in EAST. Nuclear Fusion, 2021, 61, 106037.	3.5	26
17	ITER plasma control system final designÂand preparation for first plasma. Nuclear Fusion, 2021, 61, 106036.	3.5	12
18	Integrated ELM and divertor power flux control using RMPs with low input torque in EAST in support of the ITER research plan. Nuclear Fusion, 2021, 61, 106023.	3.5	16

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19	Drift orbit islands of energetic particles due to 3D fields in ITER. Nuclear Fusion, 2021, 61, 106029.	3.5	7
20	Physics and technology considerations for the deuteriumâ€“tritium fuel cycle and conditions for tritium fuel self sufficiency. Nuclear Fusion, 2021, 61, 013001.	3.5	60
21	Turbulent transport driven by kinetic ballooning modes in the inner core of JET hybrid H-modes. Nuclear Fusion, 2021, 61, 036005.	3.5	16
22	Divertor detachment in the pre-fusion power operation phase in ITER during application of resonant magnetic perturbations. Nuclear Fusion, 2021, 61, 126027.	3.5	6
23	Toroidal modeling of resonant magnetic perturbations in preparation for the initial phase of ITER operation. Nuclear Fusion, 2020, 60, 016013.	3.5	14
24	Evaluation of core beta effects on pedestal MHD stability in ITER and consequences for energy confinement. Physics of Plasmas, 2020, 27, 092502.	1.9	0
25	Detachment in Fusion Plasmas with Symmetry Breaking Magnetic Perturbation Fields. Physical Review Letters, 2020, 125, 155001.	7.8	16
26	ELM control optimization for various ITER scenarios based on linear and quasi-linear figures of merit. Physics of Plasmas, 2020, 27, 042510.	1.9	4
27	Evaluation of fuelling requirements for core density and divertor heat load control in non-stationary phases of the ITER DT 15 MA baseline scenario. Nuclear Fusion, 2020, 60, 066015.	3.5	11
28	Effect of non-axisymmetric perturbations on the ambipolar E r and neoclassical particle flux inside the ITER pedestal region. Nuclear Fusion, 2020, 60, 086017.	3.5	2
29	Numerical simulation of Li-pellet injection experiments for ELM-pacing in EAST. Nuclear Fusion, 2020, 60, 066022.	3.5	5
30	Reassessment of steady-state operation in ITER with NBI and EC heating and current drive. Nuclear Fusion, 2020, 60, 096024.	3.5	19
31	Simulations of Fusion Power Measurements by Monitors of Neutron Flux in Evolving ITER Plasma. Journal of Fusion Energy, 2020, 39, 40-52.	1.2	3
32	Understanding the reduction of the edge safety factor during hot VDEs and fast edge cooling events. Physics of Plasmas, 2020, 27, 032501.	1.9	13
33	Analysis of runaway electron discharge formation during Joint European Torus plasma start-up. Plasma Physics and Controlled Fusion, 2020, 62, 125014.	2.1	10
34	Overview of KSTAR research progress and future plans toward ITER and K-DEMO. Nuclear Fusion, 2019, 59, 112020.	3.5	38
35	Modelling one-third field operation in the ITER pre-fusion power operation phase. Nuclear Fusion, 2019, 59, 126014.	3.5	19
36	Test of the ITER-like resonant magnetic perturbation configurations for edge-localized mode crash suppression on KSTAR. Nuclear Fusion, 2019, 59, 126045.	3.5	18

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37	Shattered pellet injection simulations with NIMROD. Physics of Plasmas, 2019, 26, .	1.9	32
38	Modeling 3D plasma boundary corrugation and tailoring toroidal torque profiles with resonant magnetic perturbation fields in ITER. Nuclear Fusion, 2019, 59, 096038.	3.5	21
39	Kinetic modeling of ELM-induced tungsten transport in a tokamak plasma. Physics of Plasmas, 2019, 26, .	1.9	12
40	Computationally advantageous expressions for 3-D MHD stability. Computer Physics Communications, 2019, 242, 60-71.	7.5	1
41	Tamed stability and transport using controlled non-axisymmetric fields in KSTAR. Nuclear Fusion, 2019, 59, 056009.	3.5	16
42	Stabilization of EMC3-EIRENE for detachment conditions and comparison to SOLPS-ITER. Nuclear Materials and Energy, 2019, 18, 62-66.	1.3	12
43	Integrated core-SOL modelling of fuelling, density control and divertor heat loads for the flat-top phase of the ITER H-mode D-T plasma scenarios. Nuclear Fusion, 2019, 59, 026006.	3.5	13
44	Multi-machine analysis of termination scenarios with comparison to simulations of controlled shutdown of ITER discharges. Nuclear Fusion, 2018, 58, 026019.	3.5	20
45	Integrated simulations of H-mode operation in ITER including core fuelling, divertor detachment and ELM control. Nuclear Fusion, 2018, 58, 056020.	3.5	26
46	Nonlinear MHD simulations of QH-mode DIII-D plasmas and implications for ITER highQscenarios. Plasma Physics and Controlled Fusion, 2018, 60, 014039.	2.1	16
47	Effect of the relative shift between the electron density and temperature pedestal position on the pedestal stability in JET-ILW and comparison with JET-C. Nuclear Fusion, 2018, 58, 056010.	3.5	38
48	Screening of resonant magnetic perturbation fields by poloidally varying toroidal plasma rotation. Physics of Plasmas, 2018, 25, 082512.	1.9	3
49	W transport and accumulation control in the termination phase of JET H-mode discharges and implications for ITER. Plasma Physics and Controlled Fusion, 2018, 60, 074008.	2.1	26
50	Non-linear magnetohydrodynamic simulations of edge localised mode triggering via vertical position oscillations in ITER. Nuclear Fusion, 2018, 58, 096018.	3.5	16
51	The interplay of controlling the power exhaust and the tungsten content in ITER. Nuclear Materials and Energy, 2017, 12, 28-35.	1.3	22
52	Toroidal modeling of plasma response to RMP fields in ITER. Plasma Physics and Controlled Fusion, 2017, 59, 044005.	2.1	12
53	Analysis of fuelling requirements in ITER H-modes with SOLPS-EPED1 derived scalings. Nuclear Fusion, 2017, 57, 022014.	3.5	34
54	Formation and termination of runaway beams in ITER disruptions. Nuclear Fusion, 2017, 57, 066025.	3.5	66

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55	ELM suppression in helium plasmas with 3D magnetic fields. Nuclear Fusion, 2017, 57, 086016.	3.5	9
56	Control of particle and power exhaust in pellet fuelled ITER DT scenarios employing integrated models. Nuclear Fusion, 2017, 57, 076020.	3.5	2
57	A comparison of the impact of central ECRH and central ICRH on the tungsten behaviour in ASDEX Upgrade H-mode plasmas. Nuclear Fusion, 2017, 57, 056015.	3.5	30
58	Gyrokinetic projection of the divertor heat-flux width from present tokamaks to ITER. Nuclear Fusion, 2017, 57, 116023.	3.5	125
59	Modelling of transitions between L- and H-mode in JET high plasma current plasmas and application to ITER scenarios including tungsten behaviour. Nuclear Fusion, 2017, 57, 086023.	3.5	22
60	Development of ITER non-activation phase operation scenarios. Nuclear Fusion, 2017, 57, 086021.	3.5	8
61	Power exhaust in tokamaks and scenario integration issues. Fusion Engineering and Design, 2017, 122, 256-273.	1.9	14
62	Enhanced understanding of non-axisymmetric intrinsic and controlled field impacts in tokamaks. Nuclear Fusion, 2017, 57, 116054.	3.5	41
63	Dimensionless scalings of confinement, heat transport and pedestal stability in JET-ILW and comparison with JET-C. Plasma Physics and Controlled Fusion, 2017, 59, 014014.	2.1	26
64	PB3D: A new code for edge 3-D ideal linear peeling-ballooning stability. Journal of Computational Physics, 2017, 330, 997-1009.	3.8	6
65	Exploration of the Super H-mode regime on DIII-D and potential advantages for burning plasma devices. Physics of Plasmas, 2016, 23, .	1.9	20
66	Three-dimensional modeling of plasma edge transport and divertor fluxes during application of resonant magnetic perturbations on ITER. Nuclear Fusion, 2016, 56, 066008.	3.5	34
67	Multi-device studies of pedestal physics and confinement in the I-mode regime. Nuclear Fusion, 2016, 56, 086003.	3.5	54
68	ELM control with RMP: plasma response models and the role of edge peeling response. Plasma Physics and Controlled Fusion, 2016, 58, 114005.	2.1	58
69	Status of the ITER ion cyclotron heating and current drive system. AIP Conference Proceedings, 2015, , .	0.4	11
70	ELM mitigation with pellet ELM triggering and implications for PFCs and plasma performance in ITER. Journal of Nuclear Materials, 2015, 463, 104-108.	2.7	12
71	Evaluation of first wall heat fluxes due to magnetic perturbations for a range of ITER scenarios. Journal of Nuclear Materials, 2015, 463, 406-410.	2.7	2
72	Nonlinear MHD simulations of Quiescent H-mode plasmas in DIII-D. Nuclear Fusion, 2015, 55, 113002.	3.5	33

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73	Runaway electron dynamics in tokamak plasmas with high impurity content. Physics of Plasmas, 2015, 22, .	1.9	22
74	L to H mode transition: parametric dependencies of the temperature threshold. Nuclear Fusion, 2015, 55, 073015.	3.5	18
75	Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. Nuclear Fusion, 2015, 55, 123001.	3.5	33
76	Modelling of plasma performance and transient density behaviour in the H-mode access for ITER gas fuelled scenarios. Nuclear Fusion, 2015, 55, 093008.	3.5	28
77	ELM control at the L â†' H transition by means of pellet pacing in the ASDEX Upgrade and JET all-metal-wall tokamaks. Plasma Physics and Controlled Fusion, 2015, 57, 045011.	2.1	9
78	SOLPS modelling of W arising from repetitive mitigated ELMs in ITER. Journal of Nuclear Materials, 2015, 463, 620-623.	2.7	11
79	ITER-like current ramps in JET with ILW: experiments, modelling and consequences for ITER. Nuclear Fusion, 2015, 55, 013009.	3.5	5
80	Disruptions in ITER and strategies for their control and mitigation. Journal of Nuclear Materials, 2015, 463, 39-48.	2.7	274
81	MHD stability of the ITER pedestal and SOL plasma and its influence on the heat flux width. Journal of Nuclear Materials, 2015, 463, 401-405.	2.7	22
82	Modelling ELM heat flux deposition on the ITER main chamber wall. Journal of Nuclear Materials, 2015, 463, 709-713.	2.7	17
83	Alcator C-Mod: research in support of ITER and steps beyond. Nuclear Fusion, 2015, 55, 104020.	3.5	14
84	The quiescent H-mode regime for high performance edge localized mode-stable operation in future	1.9	45
85	The targeted heating and current drive applications for the ITER electron cyclotron system. Physics of Plasmas, 2015, 22, .	1.9	67
86	Tungsten impurity transport experiments in Alcator C-Mod to address high priority research and	1.9	33
87	Modelling of edge localised modes and edge localised mode control. Physics of Plasmas, 2015, 22, .	1.9	34
88	Assessment of operational space for long-pulse scenarios in ITER. Nuclear Fusion, 2015, 55, 063019.	3.5	33
89	Modelling toroidal rotation damping in ITER due to external 3D fields. Nuclear Fusion, 2015, 55, 063027.	3.5	26
90	Active control of divertor heat and particle fluxes in EAST towards advanced steady state operations. Journal of Nuclear Materials, 2015, 463, 99-103.	2.7	5

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91	On the avalanche generation of runaway electrons during tokamak disruptions. Physics of Plasmas, 2015, 22, .	1.9	17
92	Plasma vertical stabilisation in ITER. Nuclear Fusion, 2015, 55, 073021.	3.5	34
93	Extending the physics basis of quiescent H-mode toward ITER relevant parameters. Nuclear Fusion, 2015, 55, 073031.	3.5	12
94	Transport of tungsten in the H-mode edge transport barrier of ITER. Plasma Physics and Controlled Fusion, 2014, 56, 124003.	2.1	23
95	L to H mode transition: on the role ofZeff. Nuclear Fusion, 2014, 54, 022001.	3.5	38
96	20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, .	1.9	88
97	A semi-analytic power balance model for low (L) to high (H) mode transition power threshold. Physics of Plasmas, 2014, 21, .	1.9	3
98	DEMO divertor limitations during and in between ELMs. Nuclear Fusion, 2014, 54, 114003.	3.5	107
99	Evolution of plasma parameters in the termination phase of high confinement H-modes at JET and implications for ITER. Nuclear Fusion, 2014, 54, 123014.	3.5	13
100	Non-linear MHD modelling of ELM triggering by pellet injection in DIII-D and implications for ITER. Nuclear Fusion, 2014, 54, 073008.	3.5	53
101	Recent advances in long-pulse high-confinement plasma operations in Experimental Advanced Superconducting Tokamak. Physics of Plasmas, 2014, 21, 056107.	1.9	25
102	Three-dimensional linear peeling-ballooning theory in magnetic fusion devices. Physics of Plasmas, 2014, 21, 042507.	1.9	4
103	Inter-machine comparison of the termination phase and energy conversion in tokamak disruptions with runaway current plateau formation and implications for ITER. Nuclear Fusion, 2014, 54, 083027.	3.5	26
104	Progress on the application of ELM control schemes to ITER scenarios from the non-active phase to DT operation. Nuclear Fusion, 2014, 54, 033007.	3.5	214
105	Access to a New Plasma Edge State with High Density and Pressures using the Quiescent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi></mml:math>Mode. Physical Review Letters, 2014, 113, 135001.	7.8	53
106	Physics of the conceptual design of the ITER plasma control system. Fusion Engineering and Design, 2014, 89, 507-511.	1.9	23
107	Approaches towards long-pulse divertor operations on EAST by active control of plasmaâ€“wall interactions. Nuclear Fusion, 2014, 54, 013002.	3.5	54
108	A full tungsten divertor for ITER: Physics issues and design status. Journal of Nuclear Materials, 2013, 438, S48-S56.	2.7	618

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109	A long-pulse high-confinement plasma regime in the Experimental Advanced Superconducting Tokamak. Nature Physics, 2013, 9, 817-821.	16.7	234
110	Non-linear MHD simulation of ELM energy deposition. Nuclear Fusion, 2013, 53, 123023.	3.5	36
111	Self-consistent simulation of plasma scenarios for ITER using a combination of 1.5D transport codes and free-boundary equilibrium codes. Nuclear Fusion, 2013, 53, 113002.	3.5	55
112	Design evolution and integration of the ITER in-vessel components. Fusion Engineering and Design, 2013, 88, 1955-1959.	1.9	10
113	Non-linear MHD simulation of ELM energy deposition. Journal of Nuclear Materials, 2013, 438, S57-S63.	2.7	6
114	Modeling of divertor particle and heat loads during application of resonant magnetic perturbation fields for ELM control in ITER. Journal of Nuclear Materials, 2013, 438, S194-S198.	2.7	25
115	Reduction of edge localized mode intensity on DIII-D by on-demand triggering with high frequency pellet injection and implications for ITER. Physics of Plasmas, 2013, 20, .	1.9	30
116	ELM control strategies and tools: status and potential for ITER. Nuclear Fusion, 2013, 53, 043004.	3.5	98
117	Control and dissipation of runaway electron beams created during rapid shutdown experiments in DIII-D. Nuclear Fusion, 2013, 53, 083004.	3.5	96
118	Plasma density and temperature evolution following the H-mode transition at JET and implications for ITER. Nuclear Fusion, 2013, 53, 083031.	3.5	27
119	Assessment of plasma parameters for the low activation phase of ITER operation. Nuclear Fusion, 2013, 53, 123026.	3.5	19
120	MHD stability of the pedestal in ITER scenarios. Nuclear Fusion, 2013, 53, 093011.	3.5	26
121	Reduction of Edge-Localized Mode Intensity Using High-Repetition-Rate Pellet Injection in Tokamak<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi></mml:math>-Mode Plasmas. Physical Review Letters, 2013, 110, 245001.	7.8	100
122	Intrinsic plasma rotation determined by neoclassical toroidal plasma viscosity in tokamaks. Nuclear Fusion, 2013, 53, 093010.	3.5	20
123	Understanding the effect resonant magnetic perturbations have on ELMs. Plasma Physics and Controlled Fusion, 2013, 55, 124003.	2.1	30
124	Update on Design of the ITER In-Vessel Coils. Fusion Science and Technology, 2013, 64, 168-175.	1.1	31
125	3D vacuum magnetic field modelling of the ITER ELM control coil during standard operating scenarios. Nuclear Fusion, 2013, 53, 093029.	3.5	72
126	On the confinement of passing alpha particles in a tokamak-reactor with resonant magnetic field perturbations shielded by plasma currents. Nuclear Fusion, 2012, 52, 054010.	3.5	1

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127	Screening of resonant magnetic perturbations by flows in tokamaks. Nuclear Fusion, 2012, 52, 054003.	3.5	106
128	Effects of rippled fields due to ferritic inserts and ELM mitigation coils on energetic ion losses in a 15ÂMA inductive scenario in ITER. Nuclear Fusion, 2012, 52, 094008.	3.5	20
129	Optimizing ion-cyclotron resonance frequency heating for ITER: dedicated JET experiments. Plasma Physics and Controlled Fusion, 2012, 54, 069601.	2.1	2
130	Analysis of edge magnetic field line structure in ITER due to in-vessel ELM control coils. Fusion Engineering and Design, 2012, 87, 1536-1543.	1.9	14
131	Edge stability analysis of ITER baseline plasma simulations. Nuclear Fusion, 2012, 52, 103020.	3.5	14
132	Preliminary results of the experimental study of PFCs exposure to ELMs-like transient loads followed by high heat flux thermal fatigue. Fusion Engineering and Design, 2011, 86, 1665-1668.	1.9	17
133	Magnetic energy flows during the current quench and termination of disruptions with runaway current plateau formation in JET and implications for ITER. Nuclear Fusion, 2011, 51, 073004.	3.5	52
134	MHD and Plasma Control in ITER. Fusion Science and Technology, 2011, 59, 427-439.	1.1	5
135	The scaling of fuel recovered following un-mitigated disruptions in Alcator C-Mod with high-Z PFCs. Journal of Nuclear Materials, 2011, 415, S813-S816.	2.7	1
136	Effect of N2, Ne and Ar seeding on Alcator C-Mod H-mode confinement. Journal of Nuclear Materials, 2011, 415, S340-S344.	2.7	73
137	Radiation loads onto plasma-facing components of JET during transient events â€“ Experimental results and implications for ITER. Journal of Nuclear Materials, 2011, 415, S821-S827.	2.7	18
138	A shaped First Wall for ITER. Journal of Nuclear Materials, 2011, 415, S969-S972.	2.7	35
139	Heat load measurements on the JET first wall during disruptions. Journal of Nuclear Materials, 2011, 415, S817-S820.	2.7	22
140	Experimental study of PFCs erosion and eroded material deposition under ITER-like transient loads at the plasma gun facility QSPA-T. Journal of Nuclear Materials, 2011, 415, S59-S64.	2.7	59
141	Erosion simulation of first wall beryllium armour after ITER transient heat loads and runaway electrons action. Journal of Nuclear Materials, 2011, 417, 655-658.	2.7	11
142	Physics basis and design of the ITER plasma-facing components. Journal of Nuclear Materials, 2011, 415, S957-S964.	2.7	361
143	The influence of three-dimensional stochastic magnetic boundaries on plasma edge transport and the resulting plasma wall interaction. Journal of Nuclear Materials, 2011, 415, S886-S893.	2.7	26
144	Experimental study of divertor plasma-facing components damage under a combination of pulsed and quasi-stationary heat loads relevant to expected transient events at ITER. Physica Scripta, 2011, T145, 014064.	2.5	11

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145	ITER test blanket module error field simulation experiments at DIII-D. Nuclear Fusion, 2011, 51, 103028.	3.5	36
146	ELM pacing investigations at JET with the new pellet launcher. Nuclear Fusion, 2011, 51, 033010.	3.5	35
147	Edge pedestal characteristics in JET and JT-60U tokamaks under variable toroidal field ripple. Nuclear Fusion, 2011, 51, 113004.	3.5	10
148	Power requirements for superior H-mode confinement on Alcator C-Mod: experiments in support of ITER. Nuclear Fusion, 2011, 51, 083007.	3.5	40
149	Optimizing ion-cyclotron resonance frequency heating for ITER: dedicated JET experiments. Plasma Physics and Controlled Fusion, 2011, 53, 124019.	2.1	17
150	High confinement/high radiated power H-mode experiments in Alcator C-Mod and consequences for International Thermonuclear Experimental Reactor (ITER) QDTâ€‰=â€‰10 operation. Physics of Plasmas, 2011, 18, .	1.9	84
151	H-mode pedestal scaling in DIII-D, ASDEX Upgrade, and JET. Physics of Plasmas, 2011, 18, 056120.	1.9	76
152	ITER plasma-facing components. Fusion Engineering and Design, 2010, 85, 2312-2322.	1.9	144
153	JET disruption studies in support of ITER. Plasma Physics and Controlled Fusion, 2010, 52, 124018.	2.1	71
154	Pedestal width and ELM size identity studies in JET and DIII-D; implications for ITER. Plasma Physics and Controlled Fusion, 2009, 51, 124051.	2.1	44
155	Heat loads on plasma facing components during disruptions on JET. Nuclear Fusion, 2009, 49, 085038.	3.5	29
156	Analysis of performance of the optimized divertor in ITER. Nuclear Fusion, 2009, 49, 075008.	3.5	112
157	Development of ITER 15â€‰MA ELMy H-mode inductive scenario. Nuclear Fusion, 2009, 49, 085034.	3.5	62
158	Erosion simulation of first wall beryllium armour under ITER transient heat loads. Journal of Nuclear Materials, 2009, 386-388, 919-921.	2.7	9
159	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
160	Recent analysis of key plasma wall interactions issues for ITER. Journal of Nuclear Materials, 2009, 390-391, 1-9.	2.7	671
161	ITER research plan of plasmaâ€“wall interaction. Journal of Nuclear Materials, 2009, 390-391, 282-285.	2.7	34
162	Experimental study of PFCs erosion under ITER-like transient loads at plasma gun facility QSPA. Journal of Nuclear Materials, 2009, 390-391, 721-726.	2.7	113

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163	Physics of ELM power fluxes to plasma facing components and implications for ITER. Journal of Nuclear Materials, 2009, 390-391, 727-732.	2.7	32
164	The impact of large ELMs on JET. Journal of Nuclear Materials, 2009, 390-391, 755-759.	2.7	32
165	Experimental validation of 3D simulations of tungsten melt erosion under ITER-like transient loads. Journal of Nuclear Materials, 2009, 390-391, 810-813.	2.7	40
166	Status and physics basis of the ITER divertor. Physica Scripta, 2009, T138, 014001.	2.5	151
167	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	3.5	200
168	Experiments and modeling of droplet emission from tungsten under transient heat loads. Physica Scripta, 2009, T138, 014061.	2.5	20
169	Behaviour of melted tungsten plasma facing components under ITER-like transient heat loads. Fusion Engineering and Design, 2008, 83, 1077-1081.	1.9	31
170	Tritium inventory in ITER plasma-facing materials and tritium removal procedures. Plasma Physics and Controlled Fusion, 2008, 50, 103001.	2.1	333
171	Effect of toroidal field ripple on plasma rotation in JET. Nuclear Fusion, 2008, 48, 035007.	3.5	43
172	Numerical study of the resonant magnetic perturbations for Type I edge localized modes control in ITER. Nuclear Fusion, 2008, 48, 024003.	3.5	71
173	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
174	ITER transient consequences for material damage: modelling versus experiments. Physica Scripta, 2007, T128, 229-233.	2.5	38
175	3D edge transport analysis of ITER start-up configuration for limiter power load assessment. Nuclear Fusion, 2007, 47, 61-73.	3.5	40
176	Chapter 4: Power and particle control. Nuclear Fusion, 2007, 47, S203-S263.	3.5	891
177	Transient heat loads in current fusion experiments, extrapolation to ITER and consequences for its operation. Physica Scripta, 2007, T128, 222-228.	2.5	124
178	Plasmaâ€“surface interaction, scrape-off layer and divertor physics: implications for ITER. Nuclear Fusion, 2007, 47, 1189-1205.	3.5	156
179	Chapter 1: Overview and summary. Nuclear Fusion, 2007, 47, S1-S17.	3.5	714
180	Modelling of tritium retention and target lifetime of the ITER divertor using the ERO code. Journal of Nuclear Materials, 2007, 363-365, 91-95.	2.7	56

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181	Effects of ELMs on ITER divertor armour materials. Journal of Nuclear Materials, 2007, 363-365, 301-307.	2.7	138
182	Melt damage simulation of W-macrobrush and divertor gaps after multiple transient events in ITER. Journal of Nuclear Materials, 2007, 363-365, 1011-1015.	2.7	37
183	Chaos cuts ELMs down to size. Nature Physics, 2006, 2, 369-370.	16.7	13
184	Pedestal conditions for small ELM regimes in tokamaks. Plasma Physics and Controlled Fusion, 2006, 48, A171-A181.	2.1	88
185	Survey of Type I ELM dynamics measurements. Plasma Physics and Controlled Fusion, 2006, 48, A149-A162.	2.1	43
186	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
187	Edge localized modes control: experiment and theory. Journal of Nuclear Materials, 2005, 337-339, 677-683.	2.7	24
188	Simulation of tokamak armour erosion and plasma contamination at intense transient heat fluxes in ITER. Journal of Nuclear Materials, 2005, 337-339, 761-765.	2.7	24
189	Edge and divertor physics with reversed toroidal field in JET. Journal of Nuclear Materials, 2005, 337-339, 146-153.	2.7	96
190	Effects of ELMs and disruptions on ITER divertor armour materials. Journal of Nuclear Materials, 2005, 337-339, 684-690.	2.7	103
191	MHD stability analysis of diagnostic optimized configuration shots in JET. Plasma Physics and Controlled Fusion, 2005, 47, 713-731.	2.1	27
192	Small ELM regimes with good confinement on JET and comparison to those on ASDEX Upgrade, Alcator C-mod and JT-60U. Nuclear Fusion, 2005, 45, 1213-1223.	3.5	41
193	Characterization of small ELM experiments in highly shaped single null and quasi-double-null plasmas in JET. Nuclear Fusion, 2005, 45, 297-317.	3.5	81
194	Timescale and magnitude of plasma thermal energy loss before and during disruptions in JET. Nuclear Fusion, 2005, 45, 1427-1438.	3.5	59
195	Study of Type III ELMs in JET. Plasma Physics and Controlled Fusion, 2004, 46, 723-750.	2.1	66
196	Dimensionless pedestal identity experiments in JT-60U and JET in ELMy H-mode plasmas. Plasma Physics and Controlled Fusion, 2004, 46, A195-A205.	2.1	12
197	ITER-relevant H-mode physics at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2004, 46, B511-B525.	2.1	24
198	ELMy H-modes in JET helium-4 plasmas. Plasma Physics and Controlled Fusion, 2004, 46, 519-534.	2.1	50

#	Article	IF	Citations
199	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
200	Reduction of divertor heat load in JET ELMy H-modes using impurity seeding techniques. Nuclear Fusion, 2004, 44, 312-319.	3.5	91
201	Edge localized mode physics and operational aspects in tokamaks. Plasma Physics and Controlled Fusion, 2003, 45, A93-A113.	2.1	88
202	Assessment of erosion of the ITER divertor targets during type I ELMs. Plasma Physics and Controlled Fusion, 2003, 45, 1523-1547.	2.1	309
203	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.	2.1	487
204	Scaling laws for edge plasma parameters in ITER from two-dimensional edge modelling. Nuclear Fusion, 2003, 43, 716-723.	3.5	116
205	Pellet injection as a possible tool for plasma performance improvement. Nuclear Fusion, 2003, 43, 1072-1076.	3.5	37
206	Improved performance of ELMy H-modes at high density by plasma shaping in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1769-1799.	2.1	138
207	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.	2.1	153
208	ELMs behaviour and edge plasma stability in JET. Plasma Physics and Controlled Fusion, 2002, 44, A103-A112.	2.1	30
209	Basic divertor operation in ITER-FEAT. Nuclear Fusion, 2002, 42, 187-191.	3.5	59
210	Effects of divertor geometry on tokamak plasmas. Plasma Physics and Controlled Fusion, 2001, 43, R183-R224.	2.1	155
211	Ballooning Instability Effect on the Profiles of Power Deposition on Divertor Targets. Contributions To Plasma Physics, 2000, 40, 233-237.	1.1	12
212	Studies in JET divertors of varied geometry. II: Impurity seeded plasmas. Nuclear Fusion, 1999, 39, 19-40.	3.5	68
213	Studies in JET divertors of varied geometry. I: Non-seeded plasma operation. Nuclear Fusion, 1999, 39, 1-17.	3.5	77
214	The impact of ELMs on the ITER divertor. Journal of Nuclear Materials, 1999, 266-269, 109-117.	2.7	121
215	Multi-machine scaling of the divertor peak heat flux and width for L-mode and H-mode discharges. Journal of Nuclear Materials, 1999, 266-269, 587-592.	2.7	95
216	Plasma detachment in JET Mark I divertor experiments. Nuclear Fusion, 1998, 38, 331-371.	3.5	282

#	Article	IF	Citations
217	Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy. Journal of Nuclear Materials, 1997, 241-243, 414-419.	2.7	12
218	Radial density profiles in a poloidal divertor modelled by diffusion across a region with variable connection length. Contributions To Plasma Physics, 1992, 32, 468-473.	1.1	10
219	A study of the heating and current drive options and confinement requirements to access steady-state plasmas at Q~5 in ITER and associated operational scenario development. Nuclear Fusion, 0, , .	3.5	9
220	L-H transition threshold studies in Helium plasmas at JET. Nuclear Fusion, 0, , .	3.5	9
221	Formation and termination of runaway beams during vertical displacement events in tokamak disruptions. Nuclear Fusion, 0, , .	3.5	0