

G Saibene

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10893612/publications.pdf>

Version: 2024-02-01

81
papers

5,657
citations

81900

39
h-index

74163

75
g-index

81
all docs

81
docs citations

81
times ranked

2202
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 2: Plasma confinement and transport. Nuclear Fusion, 2007, 47, S18-S127.	3.5	649
2	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
3	Key ITER plasma edge and plasma-material interaction issues. Journal of Nuclear Materials, 2003, 313-316, 11-22.	2.7	319
4	Plasma detachment in JET Mark I divertor experiments. Nuclear Fusion, 1998, 38, 331-371.	3.5	282
5	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
6	Principal physics developments evaluated in the ITER design review. Nuclear Fusion, 2009, 49, 065012.	3.5	200
7	Pedestal stability comparison and ITER pedestal prediction. Nuclear Fusion, 2009, 49, 085035.	3.5	179
8	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
9	The influence of isotope mass, edge magnetic shear and input power on high density ELMy H modes in JET. Nuclear Fusion, 1999, 39, 1133-1156.	3.5	142
10	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
11	ELM energy and particle losses and their extrapolation to burning plasma experiments. Journal of Nuclear Materials, 2003, 313-316, 962-966.	2.7	125
12	Transient heat loads in current fusion experiments, extrapolation to ITER and consequences for its operation. Physica Scripta, 2007, T128, 222-228.	2.5	124
13	Isotope scaling of the H mode power threshold on JET. Nuclear Fusion, 1999, 39, 309-319.	3.5	107
14	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
15	ELM control strategies and tools: status and potential for ITER. Nuclear Fusion, 2013, 53, 043004.	3.5	98
16	Reduction of divertor heat load in JET ELMy H-modes using impurity seeding techniques. Nuclear Fusion, 2004, 44, 312-319.	3.5	91
17	Edge localized mode physics and operational aspects in tokamaks. Plasma Physics and Controlled Fusion, 2003, 45, A93-A113.	2.1	88
18	Pedestal conditions for small ELM regimes in tokamaks. Plasma Physics and Controlled Fusion, 2006, 48, A171-A181.	2.1	88

#	ARTICLE	IF	CITATIONS
19	Overview of ITER physics deuterium-tritium experiments in JET. Nuclear Fusion, 1999, 39, 235-253.	3.5	84
20	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
21	Studies in JET divertors of varied geometry. I: Non-seeded plasma operation. Nuclear Fusion, 1999, 39, 1-17.	3.5	77
22	H-mode pedestal scaling in DIII-D, ASDEX Upgrade, and JET. Physics of Plasmas, 2011, 18, 056120.	1.9	76
23	3D vacuum magnetic field modelling of the ITER ELM control coil during standard operating scenarios. Nuclear Fusion, 2013, 53, 093029.	3.5	72
24	Numerical study of the resonant magnetic perturbations for Type I edge localized modes control in ITER. Nuclear Fusion, 2008, 48, 024003.	3.5	71
25	The beta scaling of energy confinement in ELMy H-modes in JET. Plasma Physics and Controlled Fusion, 2004, 46, A215-A225.	2.1	67
26	Study of Type III ELMs in JET. Plasma Physics and Controlled Fusion, 2004, 46, 723-750.	2.1	66
27	EDGE2D modelling of edge profiles obtained in JET diagnostic optimized configuration. Plasma Physics and Controlled Fusion, 2004, 46, 431-446.	2.1	64
28	Washboard modes as ELM-related events in JET. Plasma Physics and Controlled Fusion, 2004, 46, 61-87.	2.1	58
29	Recent progress on JET towards the ITER reference mode of operation at high density. Plasma Physics and Controlled Fusion, 2001, 43, A11-A30.	2.1	51
30	Particle transport and density profile analysis of different JET plasmas. Nuclear Fusion, 2003, 43, 1829-1836.	3.5	50
31	ELMy H-modes in JET helium-4 plasmas. Plasma Physics and Controlled Fusion, 2004, 46, 519-534.	2.1	50
32	Long timescale density peaking in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1911-1917.	2.1	47
33	Structure, stability and ELM dynamics of the H-mode pedestal in DIII-D. Nuclear Fusion, 2005, 45, 1493-1502.	3.5	47
34	ELM mitigation by nitrogen seeding in the JET gas box divertor. Plasma Physics and Controlled Fusion, 2002, 44, 639-652.	2.1	46
35	Edge localized modes control by resonant magnetic perturbations. Journal of Nuclear Materials, 2007, 363-365, 1071-1075.	2.7	46
36	Towards the realization on JET of an integrated H-mode scenario for ITER. Nuclear Fusion, 2004, 44, 124-133.	3.5	45

#	ARTICLE	IF	CITATIONS
37	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
38	Survey of Type I ELM dynamics measurements. Plasma Physics and Controlled Fusion, 2006, 48, A149-A162.	2.1	43
39	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
40	Performance near operational boundaries. Plasma Physics and Controlled Fusion, 1999, 41, B329-B341.	2.1	37
41	Pellet injection as a possible tool for plasma performance improvement. Nuclear Fusion, 2003, 43, 1072-1076.	3.5	37
42	High fusion power steady state operation in JET DT plasmas. Nuclear Fusion, 1999, 39, 993-1008.	3.5	36
43	The H-mode pedestal, ELMs and TF ripple effects in JT-60U/JET dimensionless identity experiments. Nuclear Fusion, 2007, 47, 969-983.	3.5	36
44	Understanding the physics of ELM pacing via vertical kicks in JET in view of ITER. Nuclear Fusion, 2016, 56, 026001.	3.5	36
45	ELM pacing investigations at JET with the new pellet launcher. Nuclear Fusion, 2011, 51, 033010.	3.5	35
46	Recent H-mode density limit studies at JET. Nuclear Fusion, 2004, 44, 752-760.	3.5	34
47	Toroidal field reversal effects on divertor asymmetries in JET. Plasma Physics and Controlled Fusion, 1996, 38, 1579-1592.	2.1	31
48	Interpretation of density limits and the H-mode operational diagram through similarity parameters for edge transport mechanisms. Plasma Physics and Controlled Fusion, 1999, 41, 913-930.	2.1	31
49	ELMs behaviour and edge plasma stability in JET. Plasma Physics and Controlled Fusion, 2002, 44, A103-A112.	2.1	30
50	Edge issues in ITB plasmas in JET. Plasma Physics and Controlled Fusion, 2002, 44, 2445-2469.	2.1	30
51	Edge ion parameters at the Lâ€“H transition on JET. Plasma Physics and Controlled Fusion, 2004, 46, 337-347.	2.1	29
52	Pedestal study across a deuterium fuelling scan for high<i>Î</i>ELMy H-mode plasmas on JET with the carbon wall. Nuclear Fusion, 2013, 53, 083028.	3.5	29
53	Pedestal and scrape-off layer dynamics in ELMy H-mode plasmas in JET. Nuclear Fusion, 2009, 49, 125006.	3.5	27
54	The edge operational space in JET. Journal of Nuclear Materials, 1999, 266-269, 124-130.	2.7	26

#	ARTICLE	IF	CITATIONS
55	A new look at JET operation with Be as plasma facing material. Journal of Nuclear Materials, 2005, 337-339, 816-820.	2.7	26
56	Power load characterization for type-I ELMy H-modes in JET. Nuclear Fusion, 2011, 51, 123001.	3.5	26
57	MHD stability of the pedestal in ITER scenarios. Nuclear Fusion, 2013, 53, 093011.	3.5	26
58	Edge localized modes and edge pedestal in NBI and ICRF heated H, D and T plasmas in JET. Nuclear Fusion, 1999, 39, 353-367.	3.5	24
59	Edge localized modes control: experiment and theory. Journal of Nuclear Materials, 2005, 337-339, 677-683.	2.7	24
60	Integrated predictive modelling of the effect of neutral gas puffing in ELMy H-mode plasmas. Plasma Physics and Controlled Fusion, 2003, 45, 1689-1711.	2.1	23
61	Comparison between experimental and theoretical conditions for the L-H transition in JET. Plasma Physics and Controlled Fusion, 2000, 42, A199-A204.	2.1	17
62	Isotope identity experiments in JET. Plasma Physics and Controlled Fusion, 2000, 42, A127-A132.	2.1	15
63	Edge operational space for high density/high confinement ELMY H-modes in JET. Plasma Physics and Controlled Fusion, 2002, 44, 1801-1813.	2.1	15
64	Comparison between dominant NB and dominant IC heated ELMY H-mode discharges in JET. Nuclear Fusion, 2011, 51, 103033.	3.5	15
65	The isotope effect on the L mode density limit in JET hydrogen, deuterium and tritium divertor plasmas. Nuclear Fusion, 1999, 39, 979-991.	3.5	14
66	Confinement of high-current steady-state ELMy H-modes with the JET Mark II divertor. Plasma Physics and Controlled Fusion, 1998, 40, 757-763.	2.1	13
67	High density, high performance high-confinement-mode plasmas in the Joint European Torus (JET). Physics of Plasmas, 2002, 9, 2103-2112.	1.9	12
68	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
69	Confinement and edge studies towards low β_N and β_{N2} at JET. Nuclear Fusion, 2013, 53, 073020.	3.5	12
70	Trace tritium and the H-mode density limit. Journal of Nuclear Materials, 1999, 266-269, 1134-1138.	2.7	10
71	Development of internal transport barrier scenarios at ITER-relevant high triangularity in JET. Nuclear Fusion, 2005, 45, 1481-1492.	3.5	10
72	Integrated ELM Modelling. Contributions To Plasma Physics, 2006, 46, 726-738.	1.1	10

#	ARTICLE	IF	CITATIONS
73	Integrated predictive modeling of JET H-mode plasma with type-I and type-III ELMs. Plasma Physics Reports, 2003, 29, 539-544.	0.9	9
74	Integrated Modelling with COCONUT of Type-I ELMs at JET. Contributions To Plasma Physics, 2008, 48, 201-206.	1.1	9
75	Identifying the MHD signature and power deposition characteristics associated with type-II ELMs in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2008, 50, 065018.	2.1	9
76	Core and edge confinement studies with different heating methods in JET. Nuclear Fusion, 2002, 42, 86-93.	3.5	8
77	Modelling of plasma tritium concentration and wall tritium inventory at JET. Journal of Nuclear Materials, 1999, 266-269, 922-927.	2.7	7
78	Local physics basis of confinement degradation in JET ELMy H mode plasmas and implications for tokamak reactors. Nuclear Fusion, 2002, 42, 66-75.	3.5	6
79	ELM moderation with ICRF heating on JET. Plasma Physics and Controlled Fusion, 2002, 44, 1937-1952.	2.1	5
80	Influence of active pumping on density and confinement behaviour of JET plasmas. Journal of Nuclear Materials, 1997, 241-243, 476-482.	2.7	2
81	Progress towards an integrated solution for the ITER baseline scenario based on high current and highly shaped plasma operation at JET. Plasma Physics and Controlled Fusion, 2007, 49, A59-A72.	2.1	0