Alberto Mariani

List of Publications by Year
in descending order

24	287	1040056 9	940533 16
papers	citations	h-index	g-index

24	24	24	514
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation and observation of fast deuterium ions and fusion-born alpha particles in JET $mathrm{D-^3He}$ plasmas with the 3-ion radio-frequency heating scenario. Nuclear Fusion, 2020, 60, 124006.	3.5	34
2	MeV range particle physics studies in tokamak plasmas using gamma-ray spectroscopy. Plasma Physics and Controlled Fusion, 2020, 62, 014015.	2.1	27
3	Progress and challenges in understanding core transport in tokamaks in support to ITER operations. Plasma Physics and Controlled Fusion, 2020, 62, 014021.	2.1	25
4	First principle-based multi-channel integrated modelling in support of the designÂof the Divertor Tokamak Test facility. Nuclear Fusion, 2021, 61, 116068.	3.5	25
5	Density peaking in JETâ€"determined by fuelling or transport?. Nuclear Fusion, 2019, 59, 126030.	3.5	23
6	New H-mode regimes with small ELMs and high thermal confinement in the Joint European Torus. Physics of Plasmas, 2022, 29, .	1.9	21
7	Excitation Mechanism of Low- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:math> Edge Harmonic Oscillations in Edge Localized Mode-Free, High Performance, Tokamak Plasmas. Physical Review Letters, 2019, 122, 155003.	7.8	16
8	Identifying microturbulence regimes in a TCV discharge making use of physical constraints on particle and heat fluxes. Physics of Plasmas, 2018, 25, .	1.9	15
9	Assessment of the ITER electron cyclotron upper launcher capabilities in view of an optimized design. Plasma Physics and Controlled Fusion, 2015, 57, 054015.	2.1	13
10	Analytic stability criteria for edge MHD oscillations in high performance ELM free tokamak regimes. Nuclear Fusion, 2018, 58, 014002.	3.5	12
11	Integrated modelling and multiscale gyrokinetic validation study of ETG turbulence in a JET hybrid H-mode scenario. Nuclear Fusion, 2022, 62, 086025.	3.5	11
12	Analytic study on low- external ideal infernalÂmodes in tokamaks with large edge pressure gradients. Journal of Plasma Physics, 2018, 84, .	2.1	10
13	The wave energy flux of high frequency diffracting beams in complex geometrical optics. Physics of Plasmas, 2013, 20, .	1.9	9
14	Modelling and theoretical understanding of the isotope effect from JET experiments in view of reliable predictions for deuterium-tritium plasmas. Plasma Physics and Controlled Fusion, 2022, 64, 054001.	2.1	9
15	Gyrokinetic analysis of radial dependence and global effects on the zero particle flux condition in a TCV plasma. Plasma Physics and Controlled Fusion, 2019, 61, 064005.	2.1	8
16	Benchmark of quasi-linear models against gyrokinetic single scale simulations in deuterium and tritium plasmas for a JET high beta hybrid discharge. Nuclear Fusion, 2021, 61, 066032.	3.5	8
17	Investigation of the role of electron temperature gradient modes in electron heat transport in TCV plasmas. Nuclear Fusion, 2019, 59, 126017.	3.5	5
18	The role of electron-scale turbulence in the JET tokamak: experiments and modelling. Nuclear Fusion, 0, , .	3.5	5

#	Article	IF	Citations
19	Experimental investigation and gyrokinetic simulations of multi-scale electron heat transport in JET, AUG, TCV. Nuclear Fusion, 2021, 61, 116071.	3.5	4
20	Characterization with microturbulence simulations of the zero particle flux condition in case of a TCV discharge showing toroidal rotation reversal. Journal of Physics: Conference Series, 2016, 775, 012007.	0.4	3
21	Role of NBI fuelling in contributing to density peaking between the ICRH and NBI identity plasmas on JET. Nuclear Fusion, 2022, 62, 066008.	3.5	3
22	Helical equilibrium magnetohydrodynamic flow effects on the stability properties of low-n ideal external-infernal modes in weak shear tokamak configurations. Plasma Physics and Controlled Fusion, 2019, 61, 064003.	2.1	1
23	Numerical analysis of the spectral broadening of the EC resonance for Gaussian beams propagating in inhomogeneous plasmas, with applications to EC H&CD in ITER. Physics of Plasmas, 2020, 27, 072509.	1.9	0
24	Understanding JET-C quiescent phases with edge harmonic magnetohydrodynamic activity and comparison with behaviour under ITER-like wall conditioning. Plasma Physics and Controlled Fusion, 0, , .	2.1	0