

Alessandro Zocco

List of Publications by Year in descending order

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43
papers

1,077
citations

430874

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414414

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43
all docs

43
docs citations

43
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004.	3.5	165
2	Magnetic configuration effects on the Wendelstein 7-X stellarator. Nature Physics, 2018, 14, 855-860.	16.7	110
3	Reduced fluid-kinetic equations for low-frequency dynamics, magnetic reconnection, and electron heating in low-beta plasmas. Physics of Plasmas, 2011, 18, .	1.9	99
4	Fast Collisionless Reconnection and Electron Heating in Strongly Magnetized Plasmas. Physical Review Letters, 2013, 111, 025002.	7.8	69
5	Steady-State Properties of Driven Magnetic Reconnection in 2D Electron Magnetohydrodynamics. Physical Review Letters, 2007, 99, 235001.	7.8	58
6	Fast ion stabilization of the ion temperature gradient driven modes in the Joint European Torus hybrid-scenario plasmas: a trigger mechanism for internal transport barrier formation. Plasma Physics and Controlled Fusion, 2010, 52, 045007.	2.1	46
7	Magnetic Reconnection Triggering Magnetohydrodynamic Instabilities during a Sawtooth Crash in a Tokamak Plasma. Physical Review Letters, 2010, 105, 255002.	7.8	46
8	Viriato : A Fourier-Hermite spectral code for strongly magnetized fluid-kinetic plasma dynamics. Computer Physics Communications, 2016, 206, 45-63.	7.5	35
9	Kinetic microtearing modes and reconnecting modes in strongly magnetised slab plasmas. Plasma Physics and Controlled Fusion, 2015, 57, 065008.	2.1	32
10	Ion temperature clamping in Wendelstein 7-X electron cyclotron heated plasmas. Nuclear Fusion, 2021, 61, 116072.	3.5	27
11	Fast Reconnection in Nonrelativistic 2D Electron-Positron Plasmas. Physical Review Letters, 2008, 101, 025003.	7.8	22
12	Unified theory of the semi-collisional tearing mode and internal kink mode in a hot tokamak: implications for sawtooth modelling. Plasma Physics and Controlled Fusion, 2012, 54, 035003.	2.1	22
13	Intrinsic Turbulence Stabilization in a Stellarator. Physical Review X, 2016, 6, .	8.9	22
14	Global gyrokinetic particle-in-cell simulations of internal kink instabilities. Physics of Plasmas, 2012, 19, 122104.	1.9	20
15	Quantitative study of kinetic ballooning mode theory in simple geometry. Physics of Plasmas, 2017, 24, 092106.	1.9	20
16	Threshold for the destabilisation of the ion-temperature-gradient mode in magnetically confined toroidal plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	20
17	Kinetic ballooning modes in tokamaks and stellarators. Journal of Plasma Physics, 2018, 84, .	2.1	20
18	Resonant interaction of energetic ions with bulk-ion plasma micro-turbulence. Physics of Plasmas, 2019, 26, 052504.	1.9	20

#	ARTICLE	IF	CITATIONS
19	Gyrokinetic investigation of Alfvén instabilities in the presence of turbulence. Plasma Physics and Controlled Fusion, 2021, 63, 065009.	2.1	20
20	Current sheet bifurcation and collapse in electron magnetohydrodynamics. Physics of Plasmas, 2009, 16, 110703.	1.9	17
21	Turbulent impurity transport simulations in Wendelstein 7-X plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	16
22	Magnetic compressibility and ion-temperature-gradient-driven microinstabilities in magnetically confined plasmas. Plasma Physics and Controlled Fusion, 2015, 57, 085003.	2.1	15
23	Quasilinear particle transport from gyrokinetic instabilities in general magnetic geometry. Plasma Physics and Controlled Fusion, 2018, 60, 084006.	2.1	14
24	ECCD-induced sawtooth crashes at W7-X. Nuclear Fusion, 2020, 60, 106021.	3.5	14
25	Global linear gyrokinetic particle-in-cell simulations including electromagnetic effects in shaped plasmas. Nuclear Fusion, 2015, 55, 053006.	3.5	13
26	A three-dimensional reduced MHD model consistent with full MHD. Physics of Plasmas, 2019, 26, .	1.9	12
27	Slab magnetised non-relativistic low-beta electron-positron plasmas: collisionless heating, linear waves and reconnecting instabilities. Journal of Plasma Physics, 2017, 83, .	2.1	11
28	Fundamental role of ion viscosity on fast magnetic reconnection in large-guide-field regimes. Physics of Plasmas, 2010, 17, .	1.9	10
29	Gyrokinetic stability of electron-positron-ion plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	10
30	The stochastic field transport associated with the slab ITG modes. Plasma Physics and Controlled Fusion, 2013, 55, 125003.	2.1	9
31	Kinetic infernal modes for Wendelstein 7-X-like β -profiles. Journal of Plasma Physics, 2019, 85, .	2.1	7
32	Confinement in electron heated plasmas in Wendelstein 7-X and ASDEX Upgrade; the necessity to control turbulent transport. Nuclear Fusion, 2022, 62, 016015.	3.5	7
33	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. Physics of Plasmas, 2016, 23, 082516.	1.9	6
34	Magnetic reconnection in 3D fusion devices: non-linear reduced equations and linear current-driven instabilities. Plasma Physics and Controlled Fusion, 2021, 63, 025001.	2.1	6
35	Linear collisionless Landau damping in Hilbert space. Journal of Plasma Physics, 2015, 81, .	2.1	5
36	Ion Landau damping and drift tearing modes. Journal of Plasma Physics, 2019, 85, .	2.1	5

#	ARTICLE	IF	CITATIONS
37	Testing of the new JOEUK stellarator-capable model in the tokamak limit. Journal of Plasma Physics, 2021, 87, .	2.1	5
38	W7-X and the sawtooth instability: towards realistic simulations of current-driven magnetic reconnection. Nuclear Fusion, 2021, 61, 086001.	3.5	5
39	Strongly driven surface-global kinetic ballooning modes in general toroidal geometry. Journal of Plasma Physics, 2018, 84, .	2.1	4
40	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. II. Non-axisymmetric systems. Physics of Plasmas, 2020, 27, .	1.9	4
41	Electron inertia effects in 2D driven reconnection in electron MHD. , 2008, , .		3
42	Improved criterion for sawtooth trigger and modelling. Plasma Physics and Controlled Fusion, 2013, 55, 074005.	2.1	3
43	Confinement degradation and plasma loss induced by strong sawtooth crashes at W7-X. Nuclear Fusion, 2021, 61, 116053.	3.5	3