

Maxime Lesur

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

561
citations

687363

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h-index

677142

22
g-index

45
all docs

45
docs citations

45
times ranked

331
citing authors

#	ARTICLE	IF	CITATIONS
1	A Concept of Cross-Ferroc Plasma Turbulence. Scientific Reports, 2016, 6, 22189.	3.3	72
2	Fully nonlinear features of the energetic beam-driven instability. Physics of Plasmas, 2009, 16, .	1.9	41
3	Strong Destabilization of Stable Modes with a Half-Frequency Associated with Chirping Geodesic Acoustic Modes in the Large Helical Device. Physical Review Letters, 2016, 116, 015002.	7.8	36
4	Nonlinear current-driven ion-acoustic instability driven by phase-space structures. Plasma Physics and Controlled Fusion, 2014, 56, 075005.	2.1	35
5	Spectroscopic determination of kinetic parameters for frequency sweeping Alfvén eigenmodes. Physics of Plasmas, 2010, 17, .	1.9	33
6	Nonlinear instabilities driven by coherent phase-space structures. Physical Review E, 2013, 87, .	2.1	28
7	Nonlinear categorization of the energetic-beam-driven instability with drag and diffusion. Nuclear Fusion, 2012, 52, 094004.	3.5	27
8	Eddy, drift wave and zonal flow dynamics in a linear magnetized plasma. Scientific Reports, 2016, 6, 33371.	3.3	26
9	Nonlinear Excitation of Subcritical Instabilities in a Toroidal Plasma. Physical Review Letters, 2016, 116, 015003.	7.8	24
10	A branch of energetic-particle driven geodesic acoustic modes due to magnetic drift resonance. Physics of Plasmas, 2016, 23, .	1.9	21
11	Enhancement and suppression of turbulence by energetic-particle-driven geodesic acoustic modes. Scientific Reports, 2017, 7, 16767.	3.3	20
12	End plate biasing experiments in linear magnetized plasmas. Nuclear Fusion, 2014, 54, 114010.	3.5	15
13	Effects of collisions on energetic particle-driven chirping bursts. Physics of Plasmas, 2013, 20, .	1.9	13
14	Ion temperature gradient driven turbulence with strong trapped ion resonance. Physics of Plasmas, 2014, 21, 102303.	1.9	13
15	Toroidal momentum channeling of geodesic acoustic modes driven by fast ions. Nuclear Fusion, 2017, 57, 036025.	3.5	12
16	Identification of Quasi-Periodic Nonlinear Waveforms in Turbulent Plasmas. Plasma and Fusion Research, 2014, 9, 1201016-1201016.	0.7	11
17	Phase-space jets drive transport and anomalous resistivity. Physics of Plasmas, 2014, 21, .	1.9	9
18	Stimulated zonal flow generation in the case of TEM and TIM microturbulence. Physics of Plasmas, 2016, 23, 092507.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Onset condition of the subcritical geodesic acoustic mode instability in the presence of energetic-particle-driven geodesic acoustic mode. Plasma Physics Reports, 2016, 42, 418-423.	0.9	8
20	Nonlinear wave-particle interaction behaviors driven by energetic ions in the HL-2A Tokamak. Nuclear Fusion, 2018, 58, 096028.	3.5	8
21	Diffusive impurity transport driven by trapped particle turbulence in tokamak plasmas. Physics of Plasmas, 2019, 26, 082306.	1.9	8
22	Nonlinear excitation of subcritical fast ion-driven modes. Nuclear Fusion, 2016, 56, 056009.	3.5	7
23	A simple model for electron dissipation in trapped ion turbulence. Physics of Plasmas, 2017, 24, .	1.9	7
24	Validity limits of the passive treatment of impurities in gyrokinetic tokamak simulations. Nuclear Fusion, 2020, 60, 036016.	3.5	7
25	Nonlinear modification of the stability of fast particle driven modes in tokamaks. Plasma Physics and Controlled Fusion, 2010, 52, 124034.	2.1	6
26	Role of phase space structures in collisionless drift wave turbulence and impact on transport modeling. Nuclear Fusion, 2017, 57, 072006.	3.5	6
27	Sheath size and Child-Langmuir law in one dimensional bounded plasma system in the presence of an oblique magnetic field: PIC results. Physics of Plasmas, 2021, 28, 083501.	1.9	6
28	Existence of Metastable Kinetic Modes. Physical Review Letters, 2010, 105, 205002.	7.8	5
29	Evaluation of Excitation Conditions of ITG Modes in the PANTA. Plasma and Fusion Research, 2013, 8, 2403133-2403133.	0.7	5
30	Relative Dispersion of Trapped Ion Granulations in Sheared Flows. Plasma and Fusion Research, 2014, 9, 3403018-3403018.	0.7	5
31	The plasma-wall transition with collisions and an oblique magnetic field: Reversal of potential drops at grazing incidences. Physics of Plasmas, 2019, 26, .	1.9	5
32	Evaluation of Non-Linear Mode Coupling During End-Plate Biasing Experiment in PANTA. Plasma and Fusion Research, 2015, 10, 3401043-3401043.	0.7	4
33	Transport hysteresis and zonal flow stimulation in magnetized plasmas. Nuclear Fusion, 2017, 57, 124001.	3.5	4
34	Radial density and heat fluxes description in the velocity space: Nonlinear simulations and quasi-linear calculations. Physics of Plasmas, 2018, 25, 122304.	1.9	4
35	Impurity density gradient influence on trapped particle modes. Physics of Plasmas, 2018, 25, 062307.	1.9	4
36	Impurity pinch generated by trapped particle driven turbulence. Plasma Physics and Controlled Fusion, 2020, 62, 095018.	2.1	4

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37	Method- and scheme-independent entropy production in turbulent kinetic simulations. Computer Physics Communications, 2016, 200, 182-189.	7.5	3
38	Subcritical Instabilities in Neutral Fluids and Plasmas. Fluids, 2018, 3, 89.	1.7	3
39	Test of the Telegraph Equation for Transport Dynamics in Plasma. Plasma and Fusion Research, 2015, 10, 1203002-1203002.	0.7	2
40	Observation of subcritical geodesic acoustic mode excitation in the large helical device. Nuclear Fusion, 2017, 57, 072009.	3.5	2
41	Stability analysis of secondary modes, driven by the phase space island. Nuclear Fusion, 2019, 59, 086010.	3.5	2
42	On the relationship between residual zonal flows and bump-on tail saturated instabilities.. Journal of Physics: Conference Series, 2016, 775, 012004.	0.4	1
43	Island Stability in Phase Space. Journal of Physics: Conference Series, 2018, 1125, 012009.	0.4	1
44	Dynamics of Structures in Configuration Space and Phase Space: An Introductory Tutorial. , 2015, , 81-113.		0
45	Test particle dynamics in low-frequency tokamak turbulence. Physics of Plasmas, 2019, 26, .	1.9	0