Alain Ghizzo

List of Publications by Year
in descending order

40	1,150	567144 15	377752 34
papers	citations	h-index	g-index

41	41	41	488
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The model of particles modes. II. Transition to a fishbone-like state triggered by global synchronization and energetic particles. Physics of Plasmas, 2022, 29, .	0.7	5
2	The model of particles modes. I. A paradigm for phase synchronization in tokamak turbulence. Physics of Plasmas, 2022, 29, 042506.	0.7	3
3	Momentum transfer driven by fluctuations in relativistic counter-propagating electron beams. Plasma Physics and Controlled Fusion, 2021, 63, 055007.	0.9	3
4	Low- and high-frequency nature of oblique filamentation modes. I. Linear theory. Physics of Plasmas, 2020, 27, .	0.7	5
5	Multiparametric study of tearing modes in thin current sheets. Physics of Plasmas, 2020, 27, .	0.7	8
6	Low- and high-frequency nature of oblique filamentation modes. II. Vlasovâ€“Maxwell simulations of collisionless heating process. Physics of Plasmas, 2020, 27, .	0.7	3
7	Transport Barrier Triggered by Resonant Three-Wave Processes Between Trapped-Particle-Modes and Zonal Flow. Plasma, 2019, 2, 229-257.	0.7	3
8	Vlasov models for kinetic Weibel-type instabilities. Journal of Plasma Physics, 2017, 83, .	0.7	12
9	Transport barriers associated to the resonant interaction between trapped particle modes triggered by plasma polarization injection. Europhysics Letters, 2017, 119, 15003.	0.7	8
10	Parallel implementation of a relativistic semi-Lagrangian Vlasovâ€“Maxwell solver. European Physical Journal D, 2017, 71, 1.	0.6	14
11	A pressure tensor description for the time-resonant Weibel instability. Journal of Plasma Physics, 2017, 83, .	0.7	4
12	Fluid description of Weibel-type instabilities via full pressure tensor dynamics. Europhysics Letters, 2016, 115, 45001.	0.7	13
13	Shear-flow trapped-ion-mode interaction revisited. II. Intermittent transport associated with low-frequency zonal flow dynamics. Physics of Plasmas, 2015, 22, .	0.7	15
14	Shear-flow trapped-ion-mode interaction revisited. I. Influence of low-frequency zonal flow on ion-temperature-gradient driven turbulence. Physics of Plasmas, 2015, 22, .	0.7	17
15	Nonlinear nature of kinetic undamped waves induced by electrostatic turbulence in stimulated Raman backscattering. European Physical Journal D, 2014, 68, 1.	0.6	5
16	On the multistream approach of relativistic Weibel instability. I. Linear analysis and specific illustrations. Physics of Plasmas, 2013, 20, .	0.7	10
17	On the multistream approach of relativistic Weibel instability. II. Bernstein-Greene-Kruskal-type waves in magnetic trapping. Physics of Plasmas, 2013, 20, 082110.	0.7	7
18	On the multistream approach of relativistic Weibel instability. III. Comparison with full-kinetic Vlasov simulations. Physics of Plasmas, 2013, 20, .	0.7	10

#	Article	IF	Citations
19	Multi-stream Vlasov model for the study of relativistic Weibel-type instabilities. Plasma Physics and Controlled Fusion, 2012, 54, 085004.	0.9	10
20	A multi-stream Vlasov modeling unifying relativistic Weibel-type instabilities. Europhysics Letters, 2011, 95, 45002.	0.7	15
21	Streamer-induced transport in the presence of trapped ion modes in tokamak plasmas. Physics of Plasmas, 2010, 17, .	0.7	20
22	Persistent subplasma-frequency kinetic electrostatic electron nonlinear waves. Physics of Plasmas, 2009, 16, 042105.	0.7	35
23	Hamiltonian stochastic processes induced by successive wave-particle interactions in stimulated Raman scattering. Physical Review E, 2009, 79, 046404.	0.8	9
24	Vlasov models for the study of stimulated Raman scattering and beatwave acceleration scenario. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 72-80.	1.7	5
25	Saturation process induced by vortex-merging in numerical Vlasov-Maxwell experiments of stimulated Raman backscattering. Physics of Plasmas, 2007, 14, .	0.7	34
26	Vlasov Models for Laserâ€Plasma Interaction. Transport Theory and Statistical Physics, 2005, 34, 103-126.	0.4	10
27	Instability of the time splitting scheme for the one-dimensional and relativistic Vlasovâ€“Maxwell system. Journal of Computational Physics, 2003, 185, 512-531.	1.9	62
28	A non-periodic 2D semi-Lagrangian Vlasov code for laserâ€“plasma interaction on parallel computer. Journal of Computational Physics, 2003, 186, 47-69.	1.9	42
29	Trapped-ion driven turbulence in tokamak plasmas. Plasma Physics and Controlled Fusion, 2000, 42, 949-971.	0.9	52
30	The Semi-Lagrangian Method for the Numerical Resolution of the Vlasov Equation. Journal of Computational Physics, 1999, 149, 201-220.	1.9	356
31	Two-Dimensional Vlasov Simulation of Raman Scattering and Plasma Beatwave Acceleration on Parallel Computers. Journal of Computational Physics, 1999, 151, 458-478.	1.9	26
32	A hybrid Eulerian Vlasov code. I. Study of highâ€frequency beatwave experiment and Manleyâ€“Rowe action evolution in a finite causal system. Physics of Plasmas, 1996, 3, 650-668.	0.7	14
33	An Eulerian Code for the Study of the Drift-Kinetic Vlasov Equation. Journal of Computational Physics, 1993, 108, 105-121.	1.9	29
34	Stimulated Raman scattering: Action evolution and particle trapping via Eulerâ€“Vlasov fluid simulation. Physics of Fluids B, 1992, 4, 2523-2537.	1.7	33
35	A Vlasov code for the numerical simulation of stimulated raman scattering. Journal of Computational Physics, 1990, 90, 431-457.	1.9	88
36	A nonperiodic Eulerâ€“Vlasov code for the numerical simulation of laserâ€“plasma beat wave acceleration and Raman scattering. Physics of Fluids B, 1990, 2, 1028-1037.	1.7	48

#	Article	IF	Citations
37	Integration of Vlasov equation by a fast Fourier Eulerian code. Computer Physics Communications, 1989, 52, 375-382.	3.0	8
38	Nonlinear evolution of the beam-plasma instabilities. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 129, 453-458.	0.9	9
39	Stability of Bernsteinâ€“Greeneâ€“Kruskal plasma equilibria. Numerical experiments over a long time. Physics of Fluids, 1988, 31, 72-82.	1.4	84
40	BGK structures as quasi-particles. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 191-195.	0.9	16