

# Alain Ghizzo

## List of Publications by Year in descending order

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40  
papers

1,150  
citations

567281

15  
h-index

377865

34  
g-index

41  
all docs

41  
docs citations

41  
times ranked

488  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Semi-Lagrangian Method for the Numerical Resolution of the Vlasov Equation. Journal of Computational Physics, 1999, 149, 201-220.	3.8	356
2	A Vlasov code for the numerical simulation of stimulated raman scattering. Journal of Computational Physics, 1990, 90, 431-457.	3.8	88
3	Stability of Bernsteinâ€“Greeneâ€“Kruskal plasma equilibria. Numerical experiments over a long time. Physics of Fluids, 1988, 31, 72-82.	1.4	84
4	Instability of the time splitting scheme for the one-dimensional and relativistic Vlasovâ€“Maxwell system. Journal of Computational Physics, 2003, 185, 512-531.	3.8	62
5	Trapped-ion driven turbulence in tokamak plasmas. Plasma Physics and Controlled Fusion, 2000, 42, 949-971.	2.1	52
6	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
7	A non-periodic 2D semi-Lagrangian Vlasov code for laserâ€“plasma interaction on parallel computer. Journal of Computational Physics, 2003, 186, 47-69.	3.8	42
8	Persistent subplasma-frequency kinetic electrostatic electron nonlinear waves. Physics of Plasmas, 2009, 16, 042105.	1.9	35
9	Saturation process induced by vortex-merging in numerical Vlasov-Maxwell experiments of stimulated Raman backscattering. Physics of Plasmas, 2007, 14, .	1.9	34
10	Stimulated Raman scattering: Action evolution and particle trapping via Eulerâ€“Vlasov fluid simulation. Physics of Fluids B, 1992, 4, 2523-2537.	1.7	33
11	An Eulerian Code for the Study of the Drift-Kinetic Vlasov Equation. Journal of Computational Physics, 1993, 108, 105-121.	3.8	29
12	Two-Dimensional Vlasov Simulation of Raman Scattering and Plasma Beatwave Acceleration on Parallel Computers. Journal of Computational Physics, 1999, 151, 458-478.	3.8	26
13	Streamer-induced transport in the presence of trapped ion modes in tokamak plasmas. Physics of Plasmas, 2010, 17, .	1.9	20
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, .	1.9	17
15	BCK structures as quasi-particles. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 191-195.	2.1	16
16	A multi-stream Vlasov modeling unifying relativistic Weibel-type instabilities. Europhysics Letters, 2011, 95, 45002.	2.0	15
17	Shear-flow trapped-ion-mode interaction revisited. II. Intermittent transport associated with low-frequency zonal flow dynamics. Physics of Plasmas, 2015, 22, .	1.9	15
18	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.	1.9	14

#	ARTICLE	IF	CITATIONS
19	Parallel implementation of a relativistic semi-Lagrangian Vlasov-Maxwell solver. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	14
20	Fluid description of Weibel-type instabilities via full pressure tensor dynamics. <i>Europhysics Letters</i> , 2016, 115, 45001.	2.0	13
21	Vlasov models for kinetic Weibel-type instabilities. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	12
22	Vlasov Models for Laser-Plasma Interaction. <i>Transport Theory and Statistical Physics</i> , 2005, 34, 103-126.	0.4	10
23	Multi-stream Vlasov model for the study of relativistic Weibel-type instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 085004.	2.1	10
24	On the multistream approach of relativistic Weibel instability. I. Linear analysis and specific illustrations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
25	On the multistream approach of relativistic Weibel instability. III. Comparison with full-kinetic Vlasov simulations. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	10
26	Nonlinear evolution of the beam-plasma instabilities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 129, 453-458.	2.1	9
27	Hamiltonian stochastic processes induced by successive wave-particle interactions in stimulated Raman scattering. <i>Physical Review E</i> , 2009, 79, 046404.	2.1	9
28	Integration of Vlasov equation by a fast Fourier Eulerian code. <i>Computer Physics Communications</i> , 1989, 52, 375-382.	7.5	8
29	Transport barriers associated to the resonant interaction between trapped particle modes triggered by plasma polarization injection. <i>Europhysics Letters</i> , 2017, 119, 15003.	2.0	8
30	Multiparametric study of tearing modes in thin current sheets. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
31	On the multistream approach of relativistic Weibel instability. II. Bernstein-Greene-Kruskal-type waves in magnetic trapping. <i>Physics of Plasmas</i> , 2013, 20, 082110.	1.9	7
32	Vlasov models for the study of stimulated Raman scattering and beatwave acceleration scenario. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 72-80.	3.3	5
33	Nonlinear nature of kinetic undamped waves induced by electrostatic turbulence in stimulated Raman backscattering. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	5
34	Low- and high-frequency nature of oblique filamentation modes. I. Linear theory. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
35	The model of particles modes. II. Transition to a fishbone-like state triggered by global synchronization and energetic particles. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	5
36	A pressure tensor description for the time-resonant Weibel instability. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	4

#	ARTICLE	IF	CITATIONS
37	Transport Barrier Triggered by Resonant Three-Wave Processes Between Trapped-Particle-Modes and Zonal Flow. Plasma, 2019, 2, 229-257.	1.8	3
38	Low- and high-frequency nature of oblique filamentation modes. II. Vlasov-Maxwell simulations of collisionless heating process. Physics of Plasmas, 2020, 27, .	1.9	3
39	Momentum transfer driven by fluctuations in relativistic counter-propagating electron beams. Plasma Physics and Controlled Fusion, 2021, 63, 055007.	2.1	3
40	The model of particles modes. I. A paradigm for phase synchronization in tokamak turbulence. Physics of Plasmas, 2022, 29, 042506.	1.9	3