Didier BÃ©nisti

List of Publications by Year in descending order

35 papers	**716** citations	471509 **17** h-index	552781 **26** g-index
36 all docs	**36** docs citations	**36** times ranked	**340** citing authors

#	Article	IF	Citations
1	Exact Relativistic Kinetic Theory of an Electron-Beam–Plasma System: Hierarchy of the Competing Modes in the System-Parameter Space. Physical Review Letters, 2008, 100, 205008.	7.8	103
2	Nonlinear plasma response to a slowly varying electrostatic wave, and application to stimulated Raman scattering. Physics of Plasmas, 2007, 14, 042304.	1.9	57
3	Experimental Evidence of Predominantly Transverse Electron Plasma Waves Driven by Stimulated Raman Scattering of Picosecond Laser Pulses. Physical Review Letters, 2009, 102, 185003.	7.8	41
4	Linear and nonlinear development of oblique beam-plasma instabilities in the relativistic kinetic regime. Physics of Plasmas, 2007, 14, 040704.	1.9	39
5	Breakdown of electrostatic predictions for the nonlinear dispersion relation of a stimulated Raman scattering driven plasma wave. Physics of Plasmas, 2008, 15, .	1.9	36
6	Nonlinear Landau Damping Rate of a Driven Plasma Wave. Physical Review Letters, 2009, 103, 155002.	7.8	35
7	Ion dynamics in multiple electrostatic waves in a magnetized plasma. I. Coherent acceleration. Physics of Plasmas, 1998, 5, 3224-3232.	1.9	32
8	Origin of diffusion in Hamiltonian dynamics. Physics of Plasmas, 1997, 4, 1576-1581.	1.9	30
9	Ion dynamics in multiple electrostatic waves in a magnetized plasma. II. Enhancement of the acceleration. Physics of Plasmas, 1998, 5, 3233-3241.	1.9	26
10	Ionospheric ion acceleration by multiple electrostatic waves. Journal of Geophysical Research, 1998, 103, 9431-9440.	3.3	24
11	Nonlinear kinetic modeling of stimulated Raman scattering in a multidimensional geometry. Physics of Plasmas, 2012, 19, .	1.9	22
12	Comparisons between nonlinear kinetic modelings of simulated Raman scattering using envelope equations. Physics of Plasmas, 2012, 19, 013110.	1.9	20
13	Finite Range of Large Perturbations in Hamiltonian Dynamics. Journal of Statistical Physics, 1998, 92, 909-972.	1.2	19
14	Nonlinear group velocity of an electron plasma wave. Physics of Plasmas, 2010, 17, 082301.	1.9	18
15	Saturation mechanisms of backward stimulated Raman scattering in a one-dimensional geometry. Physics of Plasmas, 2013, 20, 103103.	1.9	18
16	Experimental Evidence of Backward Raman Scattering Driven Cooperatively by Two Picosecond Laser Pulses Propagating Side by Side. Physical Review Letters, 2016, 117, 015002.	7.8	18
17	Nonlinear kinetic description of Raman growth using an envelope code, and comparisons with Vlasov simulations. Physics of Plasmas, 2010, 17, .	1.9	17
18	Self-Organization and Threshold of Stimulated Raman Scattering. Physical Review Letters, 2010, 105, 015001.	7.8	17

#	Article	IF	Citations
19	Basic microscopic plasma physics from N-body mechanics. Reviews of Modern Plasma Physics, 2018, 2, 1.	4.1	15
20	A unified modeling of wave mixing processes with the ray tracing method. Physics of Plasmas, 2019, 26, .	1.9	15
21	Envelope equation for the linear and nonlinear propagation of an electron plasma wave, including the effects of Landau damping, trapping, plasma inhomogeneity, and the change in the state of wave. Physics of Plasmas, 2016, 23, .	1.9	14
22	Stimulated backward Raman scattering driven collectively by two picosecond laser pulses in a bi- or multi-speckle configuration. Physics of Plasmas, 2017, 24, 032708.	1.9	13
23	The various manifestations of collisionless dissipation in wave propagation. Physics of Plasmas, 2012, 19, 063110.	1.9	12
24	Lower bound in energy for chaotic dynamics of ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 209-215.	2.1	11
25	Global change in action due to trapping: How to derive it whatever the rate of variation of the dynamics. Physical Review E, 2015, 91, 042915.	2.1	10
26	Nonlocal adiabatic theory. I. The action distribution function. Physics of Plasmas, 2017, 24, .	1.9	8
27	Reduction of Cross-Beam Energy Transfer by a Speckle Pattern. Physical Review Letters, 2021, 127, 265001.	7.8	7
28	Kinetic description of linear wave propagation in inhomogeneous, nonstationary, anisotropic, weakly magnetized, and collisional plasma. Physics of Plasmas, 2015, 22, .	1.9	6
29	Self-consistent theory for the linear and nonlinear propagation of a sinusoidal electron plasma wave. Application to stimulated Raman scattering in a non-uniform and non-stationary plasma. Plasma Physics and Controlled Fusion, 2018, 60, 014040.	2.1	6
30	Nonlinear Envelope Equation and Nonlinear Landau Damping Rate for a Driven Electron Plasma Wave. Transport Theory and Statistical Physics, 2011, 40, 185-224.	0.4	5
31	Experimental investigation of stimulated Raman and Brillouin scattering instabilities driven by two successive collinear picosecond laser pulses. Physical Review E, 2016, 93, 043209.	2.1	5
32	Nonlocal adiabatic theory. II. Nonlinear frequency shift on an electron plasma wave in a multidimensional inhomogeneous plasma. Physics of Plasmas, 2017, 24, .	1.9	5
33	Nonlinear Electron Distribution Function in a Plasma. Discontinuity, Nonlinearity, and Complexity, 2014, 3, 435-444.	0.2	5
34	Nonlinear adiabatic electron plasma waves. II. Applications. Physics of Plasmas, 2022, 29, 052109.	1.9	4
35	Nonlinear adiabatic electron plasma waves: I. General theory and nonlinear frequency shift. Physics of Plasmas, 2022, 29, 052108.	1.9	3