

Didier BÃ©nisti

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Nonlinear adiabatic electron plasma waves. II. Applications. <i>Physics of Plasmas</i> , 2022, 29, 052109.	1.9	4
2	Nonlinear adiabatic electron plasma waves: I. General theory and nonlinear frequency shift. <i>Physics of Plasmas</i> , 2022, 29, 052108.	1.9	3
3	Reduction of Cross-Beam Energy Transfer by a Speckle Pattern. <i>Physical Review Letters</i> , 2021, 127, 265001.	7.8	7
4	A unified modeling of wave mixing processes with the ray tracing method. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
5	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. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014040.	2.1	6
6	Basic microscopic plasma physics from N-body mechanics. <i>Reviews of Modern Plasma Physics</i> , 2018, 2, 1.	4.1	15
7	Stimulated backward Raman scattering driven collectively by two picosecond laser pulses in a bi- or multi-speckle configuration. <i>Physics of Plasmas</i> , 2017, 24, 032708.	1.9	13
8	Nonlocal adiabatic theory. I. The action distribution function. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
9	Nonlocal adiabatic theory. II. Nonlinear frequency shift on an electron plasma wave in a multidimensional inhomogeneous plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	5
10	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. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	14
11	Experimental Evidence of Backward Raman Scattering Driven Cooperatively by Two Picosecond Laser Pulses Propagating Side by Side. <i>Physical Review Letters</i> , 2016, 117, 015002.	7.8	18
12	Experimental investigation of stimulated Raman and Brillouin scattering instabilities driven by two successive collinear picosecond laser pulses. <i>Physical Review E</i> , 2016, 93, 043209.	2.1	5
13	Kinetic description of linear wave propagation in inhomogeneous, nonstationary, anisotropic, weakly magnetized, and collisional plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	6
14	Global change in action due to trapping: How to derive it whatever the rate of variation of the dynamics. <i>Physical Review E</i> , 2015, 91, 042915.	2.1	10
15	Nonlinear Electron Distribution Function in a Plasma. <i>Discontinuity, Nonlinearity, and Complexity</i> , 2014, 3, 435-444.	0.2	5
16	Saturation mechanisms of backward stimulated Raman scattering in a one-dimensional geometry. <i>Physics of Plasmas</i> , 2013, 20, 103103.	1.9	18
17	Comparisons between nonlinear kinetic modelings of simulated Raman scattering using envelope equations. <i>Physics of Plasmas</i> , 2012, 19, 013110.	1.9	20
18	The various manifestations of collisionless dissipation in wave propagation. <i>Physics of Plasmas</i> , 2012, 19, 063110.	1.9	12

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19	Nonlinear kinetic modeling of stimulated Raman scattering in a multidimensional geometry. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	22
20	Nonlinear Envelope Equation and Nonlinear Landau Damping Rate for a Driven Electron Plasma Wave. <i>Transport Theory and Statistical Physics</i> , 2011, 40, 185-224.	0.4	5
21	Nonlinear group velocity of an electron plasma wave. <i>Physics of Plasmas</i> , 2010, 17, 082301.	1.9	18
22	Nonlinear kinetic description of Raman growth using an envelope code, and comparisons with Vlasov simulations. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	17
23	Self-Organization and Threshold of Stimulated Raman Scattering. <i>Physical Review Letters</i> , 2010, 105, 015001.	7.8	17
24	Experimental Evidence of Predominantly Transverse Electron Plasma Waves Driven by Stimulated Raman Scattering of Picosecond Laser Pulses. <i>Physical Review Letters</i> , 2009, 102, 185003.	7.8	41
25	Nonlinear Landau Damping Rate of a Driven Plasma Wave. <i>Physical Review Letters</i> , 2009, 103, 155002.	7.8	35
26	Breakdown of electrostatic predictions for the nonlinear dispersion relation of a stimulated Raman scattering driven plasma wave. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	36
27	Exact Relativistic Kinetic Theory of an Electron-Beamâ€™Plasma System: Hierarchy of the Competing Modes in the System-Parameter Space. <i>Physical Review Letters</i> , 2008, 100, 205008.	7.8	103
28	Nonlinear plasma response to a slowly varying electrostatic wave, and application to stimulated Raman scattering. <i>Physics of Plasmas</i> , 2007, 14, 042304.	1.9	57
29	Linear and nonlinear development of oblique beam-plasma instabilities in the relativistic kinetic regime. <i>Physics of Plasmas</i> , 2007, 14, 040704.	1.9	39
30	Finite Range of Large Perturbations in Hamiltonian Dynamics. <i>Journal of Statistical Physics</i> , 1998, 92, 909-972.	1.2	19
31	Ionospheric ion acceleration by multiple electrostatic waves. <i>Journal of Geophysical Research</i> , 1998, 103, 9431-9440.	3.3	24
32	Ion dynamics in multiple electrostatic waves in a magnetized plasma. I. Coherent acceleration. <i>Physics of Plasmas</i> , 1998, 5, 3224-3232.	1.9	32
33	Ion dynamics in multiple electrostatic waves in a magnetized plasma. II. Enhancement of the acceleration. <i>Physics of Plasmas</i> , 1998, 5, 3233-3241.	1.9	26
34	Origin of diffusion in Hamiltonian dynamics. <i>Physics of Plasmas</i> , 1997, 4, 1576-1581.	1.9	30
35	Lower bound in energy for chaotic dynamics of ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 233, 209-215.	2.1	11