

Thomas Antonsen Jr

List of Publications by Citations

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457
papers

13,034
citations

56
h-index

92
g-index

548
ext. papers

14,584
ext. citations

2.8
avg, IF

6.3
L-index

#	Paper	IF	Citations
457	Low dimensional behavior of large systems of globally coupled oscillators. <i>Chaos</i> , 2008 , 18, 037113	3.3	608
456	Long time evolution of phase oscillator systems. <i>Chaos</i> , 2009 , 19, 023117	3.3	321
455	Kinetic modeling of intense, short laser pulses propagating in tenuous plasmas. <i>Physics of Plasmas</i> , 1997 , 4, 217-229	2.1	305
454	Kinetic equations for low frequency instabilities in inhomogeneous plasmas. <i>Physics of Fluids</i> , 1980 , 23, 1205		295
453	Self-focusing and Raman scattering of laser pulses in tenuous plasmas. <i>Physical Review Letters</i> , 1992 , 69, 2204-2207	7.4	286
452	Exact results for the Kuramoto model with a bimodal frequency distribution. <i>Physical Review E</i> , 2009 , 79, 026204	2.4	194
451	Experimental observation and characterization of the magnetorotational instability. <i>Physical Review Letters</i> , 2004 , 93, 114502	7.4	169
450	. <i>IEEE Transactions on Plasma Science</i> , 1992 , 20, 263-280	1.3	166
449	Spontaneous poloidal spin-up of tokamaks and the transition to the H mode. <i>Physical Review Letters</i> , 1991 , 66, 309-312	7.4	162
448	Effect of Noise on Time-Dependent Quantum Chaos. <i>Physical Review Letters</i> , 1984 , 53, 2187-2190	7.4	158
447	Self-focusing and Raman scattering of laser pulses in tenuous plasmas. <i>Physics of Fluids B</i> , 1993 , 5, 1440-1452		153
446	MAGY: a time-dependent code for simulation of slow and fast microwave sources. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 882-892	1.3	152
445	Overmoded GW-class surface-wave microwave oscillator. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 550-560	1.3	128
444	Quasiperiodically forced damped pendula and Schrödinger equations with quasiperiodic potentials: Implications of their equivalence. <i>Physical Review Letters</i> , 1985 , 55, 2103-2106	7.4	127
443	The role of chaotic orbits in the determination of power spectra of passive scalars. <i>Physics of Fluids</i> , 1996 , 8, 3094-3104	4.4	124
442	QUICKPIC: A highly efficient particle-in-cell code for modeling wakefield acceleration in plasmas. <i>Journal of Computational Physics</i> , 2006 , 217, 658-679	4.1	117
441	Development and applications of a plasma waveguide for intense laser pulses. <i>Physics of Plasmas</i> , 1996 , 3, 2149-2155	2.1	117

440	Stability and confinement of nonrelativistic sheet electron beams with periodic cusped magnetic focusing. <i>Journal of Applied Physics</i> , 1993 , 73, 4140-4155	2.5	113
439	Excitation of terahertz radiation by laser pulses in nonuniform plasma channels. <i>Physics of Plasmas</i> , 2007 , 14, 033107	2.1	111
438	Stabilization of the tearing mode in high-temperature plasma. <i>Physics of Fluids</i> , 1983 , 26, 2509		111
437	Electron cavitation and acceleration in the wake of an ultraintense, self-focused laser pulse. <i>Physical Review E</i> , 1996 , 53, R2068-R2071	2.4	104
436	Direct measurement of the electron density of extended femtosecond laser pulse-induced filaments. <i>Physical Review Letters</i> , 2010 , 105, 215005	7.4	102
435	Universal impedance fluctuations in wave chaotic systems. <i>Physical Review Letters</i> , 2005 , 94, 014102	7.4	99
434	. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 744-752	2.9	98
433	Ultrahigh-intensity optical slow-wave structure. <i>Physical Review Letters</i> , 2007 , 99, 035001	7.4	97
432	Wakefield generation and GeV acceleration in tapered plasma channels. <i>Physical Review E</i> , 2001 , 63, 056405	2.4	95
431	Compressing and focusing a short laser pulse by a thin plasma lens. <i>Physical Review E</i> , 2001 , 63, 026411	2.4	94
430	Radio frequency current generation by waves in toroidal geometry. <i>Physics of Fluids</i> , 1982 , 25, 1295		90
429	Large coupled oscillator systems with heterogeneous interaction delays. <i>Physical Review Letters</i> , 2009 , 103, 044101	7.4	89
428	On-off intermittency: Power spectrum and fractal properties of time series. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 96, 66-99	3.3	89
427	Nonlinear reduced fluid equations for toroidal plasmas. <i>Physics of Fluids</i> , 1984 , 27, 898		89
426	Resonant heating of a cluster plasma by intense laser light. <i>Physical Review Letters</i> , 2004 , 92, 205003	7.4	87
425	Electrostatic modification of variational principles for anisotropic plasmas. <i>Physics of Fluids</i> , 1982 , 25, 132		87
424	. <i>IEEE Transactions on Plasma Science</i> , 1990 , 18, 260-272	1.3	86
423	Direct acceleration of electrons in a corrugated plasma waveguide. <i>Physical Review Letters</i> , 2008 , 100, 195001	7.4	85

422	Quasiperiodically forced dynamical systems with strange nonchaotic attractors. <i>Physica D: Nonlinear Phenomena</i> , 1987 , 26, 277-294	3.3	85
421	Magnetic field of a plasma wake driven by a laser pulse. <i>Physical Review Letters</i> , 1996 , 76, 2495-2498	7.4	80
420	Fractal measures of passively convected vector fields and scalar gradients in chaotic fluid flows. <i>Physical Review A</i> , 1989 , 39, 3660-3671	2.6	78
419	Stability of Bound Eigenmode Solutions for the Collisionless Universal Instability. <i>Physical Review Letters</i> , 1978 , 41, 33-36	7.4	75
418	Mode competition and suppression in free electron laser oscillators. <i>Physics of Fluids B</i> , 1989 , 1, 1097-1108		73
417	Theory of intense ion beam acceleration. <i>Physics of Fluids</i> , 1976 , 19, 52		72
416	The spectrum of fractal dimensions of passively convected scalar gradients in chaotic fluid flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 1017-1028		71
415	A leapfrog formulation of the 3-D ADI-FDTD algorithm. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2009 , 22, 187-200	1	70
414	. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 3-11	2.9	70
413	Electromagnetic wave propagation in inhomogeneous plasmas. <i>Physics of Fluids</i> , 1978 , 21, 2295		70
412	Traveling-wave tube devices with nonlinear dielectric elements. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 774-786	1.3	69
411	Self-focusing of intense laser pulses in a clustered gas. <i>Physical Review Letters</i> , 2003 , 90, 103402	7.4	68
410	External periodic driving of large systems of globally coupled phase oscillators. <i>Chaos</i> , 2008 , 18, 037112	3.3	67
409	Statistics of Impedance and Scattering Matrices in Chaotic Microwave Cavities: Single Channel Case. <i>Electromagnetics</i> , 2006 , 26, 3-35	0.8	65
408	Structure formation and tearing of an MeV cylindrical electron beam in a laser-produced plasma. <i>Physical Review Letters</i> , 2001 , 86, 5055-8	7.4	65
407	Universal statistics of the scattering coefficient of chaotic microwave cavities. <i>Physical Review E</i> , 2005 , 71, 056215	2.4	61
406	Comment on "Long time evolution of phase oscillator systems" [Chaos 19, 023117 (2009)]. <i>Chaos</i> , 2011 , 21, 025112	3.3	60
405	Exact treatment of the dispersion and beam interaction impedance of a thin tape helix surrounded by a radially stratified dielectric. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 1472-1483	2.9	60

404	Quantum chaos in systems with ray splitting. <i>Physical Review A</i> , 1992 , 46, 6193-6210	2.6	59
403	A ponderomotive guiding center particle-in-cell code for efficient modeling of laser-plasma interactions. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 1135-1143	1.3	58
402	Advances in modeling and simulation of vacuum electronic devices. <i>Proceedings of the IEEE</i> , 1999 , 87, 804-839	14.3	57
401	Predicting the statistics of wave transport through chaotic cavities by the random coupling model: A review and recent progress. <i>Wave Motion</i> , 2014 , 51, 606-621	1.8	56
400	. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 628-645	1.3	55
399	Design of a Ka-band gyro-TWT for radar applications. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 108-115	2.9	55
398	Relativistic plasma microwave electronics: Studies of high-power plasma-filled backward-wave oscillators. <i>Physics of Fluids B</i> , 1992 , 4, 2286-2292		55
397	. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 591-604	1.3	54
396	Periodic magnetic focusing of sheet electron beams*. <i>Physics of Plasmas</i> , 1994 , 1, 1714-1720	2.1	54
395	. <i>IEEE Transactions on Plasma Science</i> , 1994 , 22, 850-860	1.3	54
394	Mode competition and control in free-electron-laser oscillators. <i>Physical Review Letters</i> , 1989 , 62, 1488-1491	7.4	54
393	Analytic theory of resistive ballooning modes. <i>Physics of Fluids</i> , 1985 , 28, 544		54
392	Startup scenarios in high-power gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 841-852	1.3	53
391	Stable laser-pulse propagation in plasma channels for GeV electron acceleration. <i>Physical Review Letters</i> , 2000 , 85, 5110-3	7.4	51
390	Nonstationary phenomena in tapered gyro-backward-wave oscillators. <i>Physical Review Letters</i> , 2001 , 87, 218301	7.4	50
389	Numerical simulation of short laser pulse relativistic self-focusing in underdense plasma. <i>Physics of Plasmas</i> , 1998 , 5, 3451-3458	2.1	50
388	Characterization of on-off intermittent time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 207, 173-179	2.3	50
387	Influence of finite wavelength on the quantum kicked rotator in the semiclassical regime. <i>Physical Review A</i> , 1984 , 29, 819-825	2.6	50

386	Statistics of Impedance and Scattering Matrices of Chaotic Microwave Cavities with Multiple Ports. <i>Electromagnetics</i> , 2006 , 26, 37-55	0.8	49
385	Effect of window reflection on gyrotron operation. <i>Physics of Fluids B</i> , 1992 , 4, 4131-4139		49
384	Chaotic fluid convection and the fractal nature of passive scalar gradients. <i>Physical Review Letters</i> , 1988 , 61, 2839-2842	7.4	49
383	Propagation of wiggler focused relativistic sheet electron beams. <i>Journal of Applied Physics</i> , 1988 , 64, 6-11	2.5	48
382	Quasistatic magnetic field generated by a short laser pulse in an underdense plasma. <i>Physics of Plasmas</i> , 1997 , 4, 4358-4368	2.1	47
381	Ray splitting and quantum chaos. <i>Physical Review Letters</i> , 1996 , 76, 2476-2479	7.4	46
380	Stability of resistive and ideal ballooning modes in the Texas Experimental Tokamak and DIII-D. <i>Physics of Fluids B</i> , 1992 , 4, 1846-1854		45
379	Statistical Prediction and Measurement of Induced Voltages on Components Within Complicated Enclosures: A Wave-Chaotic Approach. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 758-771		44
378	Universal properties of two-port scattering, impedance, and admittance matrices of wave-chaotic systems. <i>Physical Review E</i> , 2006 , 74, 036213	2.4	44
377	Lagrangian chaos and the effect of drag on the enstrophy cascade in two-dimensional turbulence. <i>Physical Review Letters</i> , 2000 , 84, 5134-7	7.4	44
376	Turbulent relaxation of compressible plasmas with flow. <i>Physics of Fluids</i> , 1983 , 26, 3540		44
375	Implication of DC-space-charge-induced velocity spread on gyrotron gun performance. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 825-834	1.3	43
374	Stability of traveling-wave amplifiers with reflections. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 1089-1107	1.3	42
373	Characterization of fluctuations of impedance and scattering matrices in wave chaotic scattering. <i>Physical Review E</i> , 2006 , 73, 046208	2.4	39
372	Physical mechanism of enhanced stability from negative shear in tokamaks: Implications for edge transport and the L-H transition. <i>Physics of Plasmas</i> , 1996 , 3, 2221-2223	2.1	39
371	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. <i>Chaos</i> , 2016 , 26, 094813	3.3	39
370	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 380-402	2.2	38
369	Effect of Inhomogeneity on Spiral Wave Dynamics. <i>Physical Review Letters</i> , 1999 , 82, 859-862	7.4	38

368	Drift-resistive interchange and tearing modes in cylindrical geometry. <i>Physics of Fluids</i> , 1983 , 26, 962		38
367	An improved iteration loop for the three dimensional quasi-static particle-in-cell algorithm: QuickPIC. <i>Journal of Computational Physics</i> , 2013 , 250, 165-177	4-1	37
366	Dynamics and pattern formation in large systems of spatially-coupled oscillators with finite response times. <i>Chaos</i> , 2011 , 21, 023122	3-3	37
365	. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 1119-1135	1-3	37
364	Open-ended coaxial probe for high-temperature and broad-band dielectric measurements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999 , 47, 1640-1648	4-1	37
363	Smoothed density of states for problems with ray splitting. <i>Physical Review E</i> , 1996 , 53, 207-213	2-4	37
362	Laser wakefield: Experimental study of nonlinear radial electron oscillations. <i>Physics of Plasmas</i> , 1998 , 5, 1162-1177	2-1	36
361	A theory of electron energy confinement in tokamaks. <i>Physics of Fluids</i> , 1979 , 22, 957		36
360	Development and testing of a high-average power, 94-GHz gyrokystron. <i>IEEE Transactions on Plasma Science</i> , 2000 , 28, 713-726	1-3	35
359	Ionization Induced Scattering of Short Intense Laser Pulses. <i>Physical Review Letters</i> , 1999 , 82, 3617-3620	7-4	35
358	Effect of short ray trajectories on the scattering statistics of wave chaotic systems. <i>Physical Review E</i> , 2009 , 80, 041109	2-4	34
357	Guiding of intense femtosecond pulses in preformed plasma channels. <i>Optics Letters</i> , 1997 , 22, 1787-9	3	34
356	Communication with a chaotic traveling wave tube microwave generator. <i>Chaos</i> , 2004 , 14, 30-7	3-3	34
355	GeV acceleration in tapered plasma channels. <i>Physics of Plasmas</i> , 2002 , 9, 2364-2370	2-1	34
354	Theory of ion temperature gradient instabilities: Thresholds and transport. <i>Physics of Fluids B</i> , 1990 , 2, 1822-1832		34
353	Linear theory of a plasma loaded, helix type, slow wave amplifier. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 669-679	1-3	33
352	Blowout bifurcations and the onset of magnetic activity in turbulent dynamos. <i>Physical Review E</i> , 2001 , 63, 066211	2-4	33
351	Simulation of microwave devices with external cavities using MAGY. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 1277-1291	1-3	33

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- 349 Multifractal power spectra of passive scalars convected by chaotic fluid flows. *Physical Review A*, **1991**, 44, 851-857 2.6 33
- 348 Variational principle for low-frequency stability of collisionless plasmas. *Physics of Fluids*, **1981**, 24, 1465 33
- 347 Experimental investigation of a high power, two-cavity, 35 GHz gyrokystron amplifier. *IEEE Transactions on Plasma Science*, **1998**, 26, 416-425 1.3 32
- 346 Experimental test of universal conductance fluctuations by means of wave-chaotic microwave cavities. *Physical Review B*, **2006**, 74, 3-3 32
- 345 Startup methods for single-mode gyrotron operation. *Physical Review Letters*, **1995**, 75, 1304-1307 7.4 32
- 344 Spontaneous radiation of an electron beam in a free-electron laser with a quadrupole wiggler. *Journal of Applied Physics*, **1986**, 60, 1584-1590 2.5 32
- 343 Space-charge instabilities in gyrotron beams. *International Journal of Electronics*, **1986**, 61, 855-870 1.2 32
- 342 Nonlinear time reversal in a wave chaotic system. *Physical Review Letters*, **2013**, 110, 063902 7.4 31
- 341 Modeling fractal entrainment sets of tracers advected by chaotic temporally irregular fluid flows using random maps. *Physica D: Nonlinear Phenomena*, **1997**, 110, 1-17 3.3 31
- 340 Spiral wave dynamics in oscillatory inhomogeneous media. *Physical Review E*, **2000**, 61, 4943-53 2.4 31
- 339 Theory of drift-acoustic instabilities in the presence of sheared flows. *Physics of Fluids B*, **1992**, 4, 2441-2447 31
- 338 Experimental examination of the effect of short ray trajectories in two-port wave-chaotic scattering systems. *Physical Review E*, **2010**, 82, 041114 2.4 30
- 337 Resonant heating of a cluster plasma by intense laser light. *Physics of Plasmas*, **2005**, 12, 056703 2.1 30
- 336 Intermittency in two-dimensional turbulence with drag. *Physical Review E*, **2005**, 71, 066313 2.4 30
- 335 New modes in a plasma with periodic boundaries: The origin of the dense spectrum. *Physical Review Letters*, **1991**, 67, 2481-2484 7.4 30
- 334 Neoclassical effects on RF current drive in tokamaks. *Nuclear Fusion*, **1986**, 26, 839-847 3.3 30
- 333 Large-Signal Multifrequency Simulation of Coupled-Cavity TWTs. *IEEE Transactions on Electron Devices*, **2011**, 58, 1229-1240 2.9 29

332	Pulse propagation and electron acceleration in a corrugated plasma channel. <i>Physical Review E</i> , 2008 , 77, 036405	2.4	29
331	Demonstration of a 10 kW average power 94 GHz gyrokystron amplifier. <i>Physics of Plasmas</i> , 1999 , 6, 4405-4409	2.1	29
330	Poloidal spin-up of tokamak plasmas from poloidal asymmetry of particle and momentum sources. <i>Physics of Plasmas</i> , 1994 , 1, 337-344	2.1	29
329	Instabilities in magnetically insulated gaps with resistive electrode plasmas. <i>Physics of Fluids</i> , 1984 , 27, 2545		29
328	Stabilization of an axisymmetric tandem mirror cell by a hot plasma component. <i>Physics of Fluids</i> , 1984 , 27, 2705		29
327	Numerical study of efficiency for a 670 GHz gyrotron. <i>Physics of Plasmas</i> , 2011 , 18, 023107	2.1	27
326	. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 1160-1168	1.3	27
325	Nonlinear mode competition and coherence in low gain FEL oscillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 285, 136-143	1.2	27
324	A Computationally Efficient Two-Dimensional Model of the Beam-Wave Interaction in a Coupled-Cavity TWT. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1575-1589	1.3	26
323	Start currents in an overmoded gyrotron. <i>Physics of Plasmas</i> , 2003 , 10, 4513-4520	2.1	26
322	Numerical solution of fields in lossy structures using MAGY. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 45-55	2.9	26
321	k Spectrum of Finite Lifetime Passive Scalars in Lagrangian Chaotic Fluid Flows. <i>Physical Review Letters</i> , 1999 , 83, 3426-3429	7.4	26
320	High-efficiency relativistic backward wave oscillator: theory and design. <i>IEEE Transactions on Plasma Science</i> , 1996 , 24, 843-851	1.3	26
319	Stable single mode operation of a quasioptical gyrotron. <i>Physics of Fluids B</i> , 1990 , 2, 419-426		26
318	Effect of AC and DC transverse self-fields in gyrotrons. <i>International Journal of Electronics</i> , 1986 , 61, 823-854	1.3	26
317	Non-asymptotic theory of collisionless reconnecting modes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981 , 81, 335-338	2.3	26
316	Effect of the thickness of electron beams on the gyrotron efficiency. <i>Physics of Plasmas</i> , 2010 , 17, 083105.1	1.1	25
315	. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 1244-1254	1.3	25

314	Universal and nonuniversal properties of wave-chaotic scattering systems. <i>Physical Review E</i> , 2010 , 81, 025201	2.4	25
313	Frequency Increase and Damping of Nonlinear Electron Plasma Oscillations in Cylindrical Symmetry. <i>Physical Review Letters</i> , 1997 , 78, 3463-3466	7.4	25
312	Lyapunov Flights in Fluid Flows with no Kolmogorov-Arnold-Moser Surfaces. <i>Physical Review Letters</i> , 1997 , 78, 3864-3867	7.4	25
311	Start-up scenario in gyrotrons with a nonstationary microwave-field structure. <i>Physical Review Letters</i> , 2006 , 96, 125101	7.4	25
310	The Generation of Current in Tokamaks by the Absorption of Waves in the Electron Cyclotron Frequency Range. <i>IEEE Transactions on Plasma Science</i> , 1984 , 12, 118-123	1.3	25
309	Heating of microprotrusions in accelerating structures. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013 , 16,		24
308	Local synchronization in complex networks of coupled oscillators. <i>Chaos</i> , 2011 , 21, 025109	3.3	24
307	Multiscale dynamics in communities of phase oscillators. <i>Chaos</i> , 2012 , 22, 013102	3.3	24
306	Sixty-percent-efficient miniature C-band vacuum power booster for the microwave power module. <i>IEEE Transactions on Plasma Science</i> , 1998 , 26, 912-921	1.3	24
305	. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 845-857	2.9	24
304	Nonlinear time-domain analysis of coupled-cavity traveling-wave tubes. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 1024-1040	1.3	24
303	Effect of the azimuthal inhomogeneity of electron emission on gyrotron operation. <i>Physics of Plasmas</i> , 2001 , 8, 3473-3479	2.1	24
302	Statistics of wave-function scars. <i>Physical Review E</i> , 1995 , 51, 111-121	2.4	24
301	Theory of helix traveling wave tubes with dielectric and vane loading. <i>Physics of Plasmas</i> , 1996 , 3, 3145-3161		24
300	Stability of space-charge limited electron flow. <i>Physics of Fluids</i> , 1984 , 27, 1257		24
299	Radio-frequency-induced current and transport in toroidal plasmas. <i>Physics of Fluids</i> , 1986 , 29, 2235		24
298	Exponential decay of chaotically advected passive scalars in the zero diffusivity limit. <i>Physical Review E</i> , 2005 , 71, 066301	2.4	23
297	. <i>IEEE Transactions on Plasma Science</i> , 1993 , 21, 760-767	1.3	23

296	THz generation by optical Cherenkov emission from ionizing two-color laser pulses. <i>Physical Review A</i> , 2013 , 88,	2.6	22
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294	Compression, spectral broadening, and collimation in multiple, femtosecond pulse filamentation in atmosphere. <i>Physical Review A</i> , 2012 , 86,	2.6	22
293	The dynamics of network coupled phase oscillators: an ensemble approach. <i>Chaos</i> , 2011 , 21, 025103	3.3	22
292	First-principles model of time-dependent variations in transmission through a fluctuating scattering environment. <i>Physical Review E</i> , 2012 , 85, 015202	2.4	22
291	Measurement of wave chaotic eigenfunctions in the time-reversal symmetry-breaking crossover regime. <i>Physical Review Letters</i> , 2000 , 85, 2482-5	7.4	22
290	Electromagnetic properties of corrugated and smooth waveguides filled with radially inhomogeneous plasma. <i>IEEE Transactions on Plasma Science</i> , 1996 , 24, 905-917	1.3	22
289	Perturbative study of the spectrum of large toroidal mode number ideal MHD instabilities. <i>Plasma Physics</i> , 1982 , 24, 197-222		22
288	Positron Acceleration by Plasma Wakefields Driven by a Hollow Electron Beam. <i>Physical Review Letters</i> , 2015 , 115, 195001	7.4	21
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286	Spectral redshifts in the intense laser-cluster interaction. <i>Physical Review A</i> , 2005 , 71,	2.6	21
285	Study of hot electron beam transport in high density plasma using 3D hybrid-Darwin code. <i>Computer Physics Communications</i> , 2004 , 164, 269-278	4.2	21
284	Design of a linear C-band helix TWT for digital communications experiments using the CHRISTINE suite of large-signal codes. <i>IEEE Transactions on Plasma Science</i> , 2002 , 30, 1053-1062	1.3	21
283	Modeling the network dynamics of pulse-coupled neurons. <i>Chaos</i> , 2017 , 27, 033102	3.3	20
282	Pulsed mid-infrared radiation from spectral broadening in laser wakefield simulations. <i>Physics of Plasmas</i> , 2013 , 20, 073103	2.1	20
281	Chaos regularization of quantum tunneling rates. <i>Physical Review E</i> , 2011 , 83, 065201	2.4	20
280	Self-consistent nonstationary two-dimensional model of multipactor in dielectric-loaded accelerator structures. <i>Physics of Plasmas</i> , 2009 , 16, 073102	2.1	20
279	Excitation of parasitic modes in gyrotrons with fast voltage rise. <i>Physics of Plasmas</i> , 2008 , 15, 103101	2.1	20

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277	Nonlinear theory of stable, efficient operation of a gyrotron at cyclotron harmonics. <i>Physics of Fluids B</i> , 1993 , 5, 4473-4485		20
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