

Thomas Antonsen Jr

List of Publications by Year in descending order

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545
papers

15,736
citations

19657

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101
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548
all docs

548
docs citations

548
times ranked

5230
citing authors

#	ARTICLE	IF	CITATIONS
1	Low dimensional behavior of large systems of globally coupled oscillators. Chaos, 2008, 18, 037113.	2.5	750
2	Long time evolution of phase oscillator systems. Chaos, 2009, 19, 023117.	2.5	386
3	Kinetic modeling of intense, short laser pulses propagating in tenuous plasmas. Physics of Plasmas, 1997, 4, 217-229.	1.9	353
4	Kinetic equations for low frequency instabilities in inhomogeneous plasmas. Physics of Fluids, 1980, 23, 1205.	1.4	337
5	Self-focusing and Raman scattering of laser pulses in tenuous plasmas. Physical Review Letters, 1992, 69, 2204-2207.	7.8	314
6	Exact results for the Kuramoto model with a bimodal frequency distribution. Physical Review E, 2009, 79, 026204.	2.1	230
7	MAGY: a time-dependent code for simulation of slow and fast microwave sources. IEEE Transactions on Plasma Science, 1998, 26, 882-892.	1.3	216
8	Experimental Observation and Characterization of the Magnetorotational Instability. Physical Review Letters, 2004, 93, 114502.	7.8	198
9	Theory of relativistic backward-wave oscillators with end reflectors. IEEE Transactions on Plasma Science, 1992, 20, 263-280.	1.3	194
10	Spontaneous poloidal spin-up of tokamaks and the transition to the Hmode. Physical Review Letters, 1991, 66, 309-312.	7.8	169
11	Effect of Noise on Time-Dependent Quantum Chaos. Physical Review Letters, 1984, 53, 2187-2190.	7.8	168
12	Overmoded GW-class surface-wave microwave oscillator. IEEE Transactions on Plasma Science, 2000, 28, 550-560.	1.3	168
13	Self-focusing and Raman scattering of laser pulses in tenuous plasmas. Physics of Fluids B, 1993, 5, 1440-1452.	1.7	159
14	QUICKPIC: A highly efficient particle-in-cell code for modeling wakefield acceleration in plasmas. Journal of Computational Physics, 2006, 217, 658-679.	3.8	142
15	Intense Sheet Electron Beam Transport in a Uniform Solenoidal Magnetic Field. IEEE Transactions on Electron Devices, 2009, 56, 744-752.	3.0	141
16	Quasiperiodically Forced Damped Pendula and Schrödinger Equations with Quasiperiodic Potentials: Implications of Their Equivalence. Physical Review Letters, 1985, 55, 2103-2106.	7.8	140
17	Stability and confinement of nonrelativistic sheet electron beams with periodic cusped magnetic focusing. Journal of Applied Physics, 1993, 73, 4140-4155.	2.5	140
18	Direct Measurement of the Electron Density of Extended Femtosecond Laser Pulse-Induced Filaments. Physical Review Letters, 2010, 105, 215005.	7.8	131

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19	Development and applications of a plasma waveguide for intense laser pulses. <i>Physics of Plasmas</i> , 1996, 3, 2149-2155.	1.9	129
20	The role of chaotic orbits in the determination of power spectra of passive scalars. <i>Physics of Fluids</i> , 1996, 8, 3094-3104.	4.0	129
21	Electron cavitation and acceleration in the wake of an ultraintense, self-focused laser pulse. <i>Physical Review E</i> , 1996, 53, R2068-R2071.	2.1	124
22	Universal Impedance Fluctuations in Wave Chaotic Systems. <i>Physical Review Letters</i> , 2005, 94, 014102.	7.8	123
23	Excitation of terahertz radiation by laser pulses in nonuniform plasma channels. <i>Physics of Plasmas</i> , 2007, 14, 033107.	1.9	122
24	Stabilization of the tearing mode in high-temperature plasma. <i>Physics of Fluids</i> , 1983, 26, 2509.	1.4	118
25	A three-dimensional multifrequency large signal model for helix traveling wave tubes. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 3-11.	3.0	116
26	Wakefield generation and GeV acceleration in tapered plasma channels. <i>Physical Review E</i> , 2001, 63, 056405.	2.1	113
27	Ultrahigh-Intensity Optical Slow-Wave Structure. <i>Physical Review Letters</i> , 2007, 99, 035001.	7.8	108
28	Large Coupled Oscillator Systems with Heterogeneous Interaction Delays. <i>Physical Review Letters</i> , 2009, 103, 044101.	7.8	103
29	Compressing and focusing a short laser pulse by a thin plasma lens. <i>Physical Review E</i> , 2001, 63, 026411.	2.1	102
30	Quasiperiodically forced dynamical systems with strange nonchaotic attractors. <i>Physica D: Nonlinear Phenomena</i> , 1987, 26, 277-294.	2.8	101
31	Resonant Heating of a Cluster Plasma by Intense Laser Light. <i>Physical Review Letters</i> , 2004, 92, 205003.	7.8	101
32	On-off intermittency: Power spectrum and fractal properties of time series. <i>Physica D: Nonlinear Phenomena</i> , 1996, 96, 66-99.	2.8	98
33	Radio frequency current generation by waves in toroidal geometry. <i>Physics of Fluids</i> , 1982, 25, 1295.	1.4	97
34	Traveling-wave tube devices with nonlinear dielectric elements. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 774-786.	1.3	97
35	Stability of Bound Eigenmode Solutions for the Collisionless Universal Instability. <i>Physical Review Letters</i> , 1978, 41, 33-36.	7.8	93
36	Nonlinear reduced fluid equations for toroidal plasmas. <i>Physics of Fluids</i> , 1984, 27, 898.	1.4	93

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37	Mode competition and control in higher-power gyrotron oscillators. IEEE Transactions on Plasma Science, 1990, 18, 260-272.	1.3	92
38	Magnetic Field of a Plasma Wake Driven by a Laser Pulse. Physical Review Letters, 1996, 76, 2495-2498.	7.8	92
39	Direct Acceleration of Electrons in a Corrugated Plasma Waveguide. Physical Review Letters, 2008, 100, 195001.	7.8	92
40	Electrostatic modification of variational principles for anisotropic plasmas. Physics of Fluids, 1982, 25, 132.	1.4	91
41	Electromagnetic wave propagation in inhomogeneous plasmas. Physics of Fluids, 1978, 21, 2295.	1.4	88
42	A leapfrog formulation of the 3D ADI-FDTD algorithm. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2009, 22, 187-200.	1.9	88
43	Advances in modeling and simulation of vacuum electronic devices. Proceedings of the IEEE, 1999, 87, 804-839.	21.3	86
44	Predicting the statistics of wave transport through chaotic cavities by the random coupling model: A review and recent progress. Wave Motion, 2014, 51, 606-621.	2.0	85
45	Theory of intense ion beam acceleration. Physics of Fluids, 1976, 19, 52.	1.4	82
46	Self-Focusing of Intense Laser Pulses in a Clustered Gas. Physical Review Letters, 2003, 90, 103402.	7.8	81
47	Fractal measures of passively convected vector fields and scalar gradients in chaotic fluid flows. Physical Review A, 1989, 39, 3660-3671.	2.5	80
48	Mode competition and suppression in free electron laser oscillators. Physics of Fluids B, 1989, 1, 1097-1108.	1.7	80
49	Universal statistics of the scattering coefficient of chaotic microwave cavities. Physical Review E, 2005, 71, 056215.	2.1	80
50	Statistics of Impedance and Scattering Matrices in Chaotic Microwave Cavities: Single Channel Case. Electromagnetics, 2006, 26, 3-35.	0.7	80
51	The spectrum of fractal dimensions of passively convected scalar gradients in chaotic fluid flows. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1017-1028.	1.6	79
52	Exact treatment of the dispersion and beam interaction impedance of a thin tape helix surrounded by a radially stratified dielectric. IEEE Transactions on Electron Devices, 1999, 46, 1472-1483.	3.0	76
53	External periodic driving of large systems of globally coupled phase oscillators. Chaos, 2008, 18, 037112.	2.5	73
54	Recent progress in the development of plasma-filled traveling-wave tubes and backward-wave oscillators. IEEE Transactions on Plasma Science, 1998, 26, 628-645.	1.3	72

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55	Structure Formation and Tearing of an MeV Cylindrical Electron Beam in a Laser-Produced Plasma. <i>Physical Review Letters</i> , 2001, 86, 5055-5058.	7.8	69
56	Relativistic plasma microwave electronics: Studies of high-power plasma-filled backward-wave oscillators. <i>Physics of Fluids B</i> , 1992, 4, 2286-2292.	1.7	68
57	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	68
58	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.	2.2	68
59	Periodic magnetic focusing of sheet electron beams*. <i>Physics of Plasmas</i> , 1994, 1, 1714-1720.	1.9	66
60	Experimental studies of overmoded relativistic backward-wave oscillators. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 591-604.	1.3	66
61	Design of a Ka-band gyro-TWT for radar applications. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 108-115.	3.0	66
62	Quantum chaos in systems with ray splitting. <i>Physical Review A</i> , 1992, 46, 6193-6210.	2.5	65
63	Comment on "Long time evolution of phase oscillator systems" [Chaos, 19, 023117 (2009)]. <i>Chaos</i> , 2011, 21, 025112.	2.5	64
64	Mode competition and control in free-electron-laser oscillators. <i>Physical Review Letters</i> , 1989, 62, 1488-1491.	7.8	62
65	Mode competition and startup in cylindrical cavity gyrotrons using high-order operating modes. <i>IEEE Transactions on Plasma Science</i> , 1994, 22, 850-860.	1.3	62
66	Nonstationary Phenomena in Tapered Gyro-Backward-Wave Oscillators. <i>Physical Review Letters</i> , 2001, 87, 218301.	7.8	62
67	Stability of traveling-wave amplifiers with reflections. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 1089-1107.	1.3	61
68	Startup Scenarios in High-Power Gyrotrons. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 841-852.	1.3	61
69	Effect of window reflection on gyrotron operation. <i>Physics of Fluids B</i> , 1992, 4, 4131-4139.	1.7	60
70	Statistics of Impedance and Scattering Matrices of Chaotic Microwave Cavities with Multiple Ports. <i>Electromagnetics</i> , 2006, 26, 37-55.	0.7	60
71	Propagation of wiggler focused relativistic sheet electron beams. <i>Journal of Applied Physics</i> , 1988, 64, 6-11.	2.5	58
72	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. <i>Chaos</i> , 2016, 26, 094811.	2.5	58

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73	Stable Laser-Pulse Propagation in Plasma Channels for GeV Electron Acceleration. <i>Physical Review Letters</i> , 2000, 85, 5110-5113.	7.8	57
74	Analytic theory of resistive ballooning modes. <i>Physics of Fluids</i> , 1985, 28, 544.	1.4	56
75	Simulation of microwave devices with external cavities using magy. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 1277-1291.	1.3	55
76	Characterization of fluctuations of impedance and scattering matrices in wave chaotic scattering. <i>Physical Review E</i> , 2006, 73, 046208.	2.1	55
77	Characterization of on-off intermittent time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 207, 173-179.	2.1	54
78	Influence of finite wavelength on the quantum kicked rotator in the semiclassical regime. <i>Physical Review A</i> , 1984, 29, 819-825.	2.5	53
79	Quasistatic magnetic field generated by a short laser pulse in an underdense plasma. <i>Physics of Plasmas</i> , 1997, 4, 4358-4368.	1.9	53
80	Numerical simulation of short laser pulse relativistic self-focusing in underdense plasma. <i>Physics of Plasmas</i> , 1998, 5, 3451-3458.	1.9	53
81	Chaotic Fluid Convection and the Fractal Nature of Passive Scalar Gradients. <i>Physical Review Letters</i> , 1988, 61, 2839-2842.	7.8	52
82	Universal properties of two-port scattering, impedance, and admittance matrices of wave-chaotic systems. <i>Physical Review E</i> , 2006, 74, 036213.	2.1	52
83	High-Power Four-Cavity S-Band Multiple-Beam Klystron Design. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 1119-1135.	1.3	51
84	Ray Splitting and Quantum Chaos. <i>Physical Review Letters</i> , 1996, 76, 2476-2479.	7.8	50
85	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.	4.6	50
86	Development and testing of a high-average power, 94-GHz gyrokystron. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 713-726.	1.3	50
87	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.	3.8	50
88	Experimental investigation of a high power, two-cavity, 35 GHz gyrokystron amplifier. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 416-425.	1.3	49
89	Lagrangian Chaos and the Effect of Drag on the Enstrophy Cascade in Two-Dimensional Turbulence. <i>Physical Review Letters</i> , 2000, 84, 5134-5137.	7.8	48
90	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.	1.7	47

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91	Implication of DC-space-charge-induced velocity spread on gyrotron gun performance. IEEE Transactions on Plasma Science, 1998, 26, 825-834.	1.3	47
92	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 380-402.	2.2	47
93	Turbulent relaxation of compressible plasmas with flow. Physics of Fluids, 1983, 26, 3540.	1.4	45
94	Laser wakefield: Experimental study of nonlinear radial electron oscillations. Physics of Plasmas, 1998, 5, 1162-1177.	1.9	45
95	Communication with a chaotic traveling wave tube microwave generator. Chaos, 2004, 14, 30-37.	2.5	45
96	Nonlinear Time Reversal in a Wave Chaotic System. Physical Review Letters, 2013, 110, 063902.	7.8	44
97	Physical mechanism of enhanced stability from negative shear in tokamaks: Implications for edge transport and the Lâ€H transition. Physics of Plasmas, 1996, 3, 2221-2223.	1.9	43
98	Variational principle for low-frequency stability of collisionless plasmas. Physics of Fluids, 1981, 24, 1465.	1.4	42
99	Theory of relativistic backward wave oscillators operating near cutoff. Physics of Plasmas, 1994, 1, 730-740.	1.9	42
100	Smoothed density of states for problems with ray splitting. Physical Review E, 1996, 53, 207-213.	2.1	42
101	A theory of electron energy confinement in tokamaks. Physics of Fluids, 1979, 22, 957.	1.4	40
102	Drift-resistive interchange and tearing modes in cylindrical geometry. Physics of Fluids, 1983, 26, 962.	1.4	40
103	Effect of Inhomogeneity on Spiral Wave Dynamics. Physical Review Letters, 1999, 82, 859-862.	7.8	40
104	GeV acceleration in tapered plasma channels. Physics of Plasmas, 2002, 9, 2364-2370.	1.9	40
105	Dynamics and pattern formation in large systems of spatially-coupled oscillators with finite response times. Chaos, 2011, 21, 023122.	2.5	40
106	A Computationally Efficient Two-Dimensional Model of the Beamâ€Wave Interaction in a Coupled-Cavity TWT. IEEE Transactions on Plasma Science, 2012, 40, 1575-1589.	1.3	40
107	Spontaneous radiation of an electron beam in a freeâ€electron laser with a quadrupole wiggler. Journal of Applied Physics, 1986, 60, 1584-1590.	2.5	39
108	New modes in a plasma with periodic boundaries: The origin of the dense spectrum. Physical Review Letters, 1991, 67, 2481-2484.	7.8	39

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109	Linear theory of a plasma loaded, helix type, slow wave amplifier. IEEE Transactions on Plasma Science, 1998, 26, 669-679.	1.3	39
110	Demonstration of a 10 kW average power 94 GHz gyrokystron amplifier. Physics of Plasmas, 1999, 6, 4405-4409.	1.9	39
111	Large-Signal Multifrequency Simulation of Coupled-Cavity TWTs. IEEE Transactions on Electron Devices, 2011, 58, 1229-1240.	3.0	39
112	Guiding of intense femtosecond pulses in preformed plasma channels. Optics Letters, 1997, 22, 1787.	3.3	38
113	A simulation study of beam loading on a cavity. IEEE Transactions on Plasma Science, 2002, 30, 1160-1168.	1.3	38
114	Effect of short ray trajectories on the scattering statistics of wave chaotic systems. Physical Review E, 2009, 80, 041109.	2.1	38
115	Characterization of a Ka-band Sheet-Beam Coupled-Cavity Slow-Wave Structure. IEEE Transactions on Plasma Science, 2010, 38, 1244-1254.	1.3	38
116	Positron Acceleration by Plasma Wakefields Driven by a Hollow Electron Beam. Physical Review Letters, 2015, 115, 195001.	7.8	38
117	Ionization Induced Scattering of Short Intense Laser Pulses. Physical Review Letters, 1999, 82, 3617-3620.	7.8	37
118	Blowout bifurcations and the onset of magnetic activity in turbulent dynamos. Physical Review E, 2001, 63, 066211.	2.1	37
119	Nonlinear time-domain analysis of coupled-cavity traveling-wave tubes. IEEE Transactions on Plasma Science, 2002, 30, 1024-1040.	1.3	37
120	Experimental examination of the effect of short ray trajectories in two-port wave-chaotic scattering systems. Physical Review E, 2010, 82, 041114.	2.1	37
121	Space-charge instabilities in gyrotron beams. International Journal of Electronics, 1986, 61, 855-870.	1.4	36
122	Intermittency in two-dimensional turbulence with drag. Physical Review E, 2005, 71, 066313.	2.1	36
123	Theory of ion temperature gradient instabilities: Thresholds and transport. Physics of Fluids B, 1990, 2, 1822-1832.	1.7	35
124	Multifractal power spectra of passive scalars convected by chaotic fluid flows. Physical Review A, 1991, 44, 851-857.	2.5	35
125	Design of a linear c-band helix TWT for digital communications experiments using the CHRISTINE suite of large-signal codes. IEEE Transactions on Plasma Science, 2002, 30, 1053-1062.	1.3	35
126	Modeling Vacuum Electronic Devices Using Generalized Impedance Matrices. IEEE Transactions on Electron Devices, 2017, 64, 536-542.	3.0	34

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127	Stabilization of an axisymmetric tandem mirror cell by a hot plasma component. <i>Physics of Fluids</i> , 1984, 27, 2705.	1.4	33
128	Startup Methods for Single-Mode Gyrotron Operation. <i>Physical Review Letters</i> , 1995, 75, 1304-1307.	7.8	33
129	Theory of helix traveling wave tubes with dielectric and vane loading. <i>Physics of Plasmas</i> , 1996, 3, 3145-3161.	1.9	33
130	Spiral wave dynamics in oscillatory inhomogeneous media. <i>Physical Review E</i> , 2000, 61, 4943-4953.	2.1	33
131	Start currents in an overmoded gyrotron. <i>Physics of Plasmas</i> , 2003, 10, 4513-4520.	1.9	33
132	Resonant heating of a cluster plasma by intense laser light. <i>Physics of Plasmas</i> , 2005, 12, 056703.	1.9	33
133	Experimental test of universal conductance fluctuations by means of wave-chaotic microwave cavities. <i>Physical Review B</i> , 2006, 74, .	3.2	33
134	Neoclassical effects on RF current drive in tokamaks. <i>Nuclear Fusion</i> , 1986, 26, 839-847.	3.5	32
135	High-efficiency relativistic backward wave oscillator: theory and design. <i>IEEE Transactions on Plasma Science</i> , 1996, 24, 843-851.	1.3	32
136	Modeling fractal entrainment sets of tracers advected by chaotic temporally irregular fluid flows using random maps. <i>Physica D: Nonlinear Phenomena</i> , 1997, 110, 1-17.	2.8	32
137	Effect of the azimuthal inhomogeneity of electron emission on gyrotron operation. <i>Physics of Plasmas</i> , 2001, 8, 3473-3479.	1.9	32
138	Pulse propagation and electron acceleration in a corrugated plasma channel. <i>Physical Review E</i> , 2008, 77, 036405.	2.1	32
139	THz generation by optical Cherenkov emission from ionizing two-color laser pulses. <i>Physical Review A</i> , 2013, 88, .	2.5	32
140	Theory of drift-acoustic instabilities in the presence of sheared flows. <i>Physics of Fluids B</i> , 1992, 4, 2441-2447.	1.7	31
141	Numerical study of efficiency for a 670 GHz gyrotron. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	31
142	Absolute Instability near the Band Edge of Traveling-Wave Amplifiers. <i>Physical Review Letters</i> , 2015, 115, 124801.	7.8	31
143	Frequency Increase and Damping of Nonlinear Electron Plasma Oscillations in Cylindrical Symmetry. <i>Physical Review Letters</i> , 1997, 78, 3463-3466.	7.8	30
144	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	30

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145	Numerical solution of fields in lossy structures using MAGY. IEEE Transactions on Electron Devices, 2001, 48, 45-55.	3.0	30
146	Validation of the Large-Signal Klystron Simulation Code TESLA. IEEE Transactions on Plasma Science, 2004, 32, 1136-1146.	1.3	30
147	Simulation of Klystrons With Slow and Reflected Electrons Using Large-Signal Code TESLA. IEEE Transactions on Electron Devices, 2007, 54, 1555-1561.	3.0	30
148	Parallel Simulation of Independent Beam-Tunnels in Multiple-Beam Klystrons Using TESLA. IEEE Transactions on Plasma Science, 2008, 36, 670-681.	1.3	30
149	Universal and nonuniversal properties of wave-chaotic scattering systems. Physical Review E, 2010, 81, 025201.	2.1	30
150	Effect of the thickness of electron beams on the gyrotron efficiency. Physics of Plasmas, 2010, 17, 083105.	1.9	30
151	Transmission Line Model for Folded Waveguide Circuits. IEEE Transactions on Electron Devices, 2013, 60, 2906-2911.	3.0	30
152	Instabilities in magnetically insulated gaps with resistive electrode plasmas. Physics of Fluids, 1984, 27, 2545.	1.4	29
153	Poloidal spinâ€ of tokamak plasmas from poloidal asymmetry of particle and momentum sources. Physics of Plasmas, 1994, 1, 337-344.	1.9	29
154	The Pasotron: Progress in the Theory and Experiments. IEEE Transactions on Electron Devices, 2005, 52, 845-857.	3.0	29
155	First-principles model of time-dependent variations in transmission through a fluctuating scattering environment. Physical Review E, 2012, 85, 015202.	2.1	29
156	Heating of microprotrusions in accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	29
157	1-D Large Signal Model of Folded-Waveguide Traveling Wave Tubes. IEEE Transactions on Electron Devices, 2014, 61, 1699-1706.	3.0	29
158	Effect of AC and DC transverse self-fields in gyrotrons. International Journal of Electronics, 1986, 61, 823-854.	1.4	28
159	Nonlinear mode competition and coherence in low gain FEL oscillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 285, 136-143.	1.6	28
160	"Power holes" and nonlinear forward and backward wave gain competition in helix traveling-wave tubes. IEEE Transactions on Electron Devices, 2003, 50, 2540-2547.	3.0	28
161	Multiscale dynamics in communities of phase oscillators. Chaos, 2012, 22, 013102.	2.5	28
162	Non-asymptotic theory of collisionless reconnecting modes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 81, 335-338.	2.1	27

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163	The Generation of Current in Tokamaks by the Absorption of Waves in the Electron Cyclotron Frequency Range. IEEE Transactions on Plasma Science, 1984, 12, 118-123.	1.3	27
164	Experimental and numerical studies of sheet electron beam propagation through a planar wiggler magnet. IEEE Transactions on Plasma Science, 1993, 21, 760-767.	1.3	27
165	Phase locking, amplification, and mode selection in an 85 GHz quasioptical gyrokystron. Physical Review Letters, 1994, 72, 2395-2398.	7.8	27
166	Statistics of wave-function scars. Physical Review E, 1995, 51, 111-121.	2.1	27
167	L [∞] Flights in Fluid Flows with no Kolmogorov-Arnold-Moser Surfaces. Physical Review Letters, 1997, 78, 3864-3867.	7.8	27
168	kSpectrum of Finite Lifetime Passive Scalars in Lagrangian Chaotic Fluid Flows. Physical Review Letters, 1999, 83, 3426-3429.	7.8	27
169	Local synchronization in complex networks of coupled oscillators. Chaos, 2011, 21, 025109.	2.5	27
170	Stable single mode operation of a quasioptical gyrotron. Physics of Fluids B, 1990, 2, 419-426.	1.7	26
171	Electromagnetic properties of corrugated and smooth waveguides filled with radially inhomogeneous plasma. IEEE Transactions on Plasma Science, 1996, 24, 905-917.	1.3	26
172	Measurement of Wave Chaotic Eigenfunctions in the Time-Reversal Symmetry-Breaking Crossover Regime. Physical Review Letters, 2000, 85, 2482-2485.	7.8	26
173	Linearizability of TWTAs Using Predistortion Techniques. IEEE Transactions on Electron Devices, 2005, 52, 718-727.	3.0	26
174	The dynamics of network coupled phase oscillators: An ensemble approach. Chaos, 2011, 21, 025103.	2.5	26
175	Compression, spectral broadening, and collimation in multiple, femtosecond pulse filamentation in atmosphere. Physical Review A, 2012, 86, .	2.5	26
176	Theory of foil-less diode generation of intense relativistic electron beams. Physics of Fluids, 1977, 20, 1180.	1.4	25
177	Stability of space-charge limited electron flow. Physics of Fluids, 1984, 27, 1257.	1.4	25
178	A study of parametric instability in a harmonic gyrotron: Designs of third harmonic gyrotrons at 94 GHz and 210 GHz. Physics of Plasmas, 1995, 2, 2839-2846.	1.9	25
179	Start-Up Scenario in Gyrotrons with a Nonstationary Microwave-Field Structure. Physical Review Letters, 2006, 96, 125101.	7.8	25
180	Pulsed mid-infrared radiation from spectral broadening in laser wakefield simulations. Physics of Plasmas, 2013, 20, .	1.9	25

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181	A Statistical Model for the Excitation of Cavities Through Apertures. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1049-1061.	2.2	25
182	Universal Instability for Wavelengths below the Ion Larmor Scale. Physical Review Letters, 2015, 114, 095003.	7.8	25
183	Radio-frequency-induced current and transport in toroidal plasmas. Physics of Fluids, 1986, 29, 2235.	1.4	24
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