

Thomas Antonsen Jr

List of Publications by Year in descending order

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545
papers

15,736
citations

19636

61
h-index

31818

101
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548
all docs

548
docs citations

548
times ranked

5230
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep-Learning Estimation of Complex Reverberant Wave Fields with a Programmable Metasurface. Physical Review Applied, 2022, 17, .	1.5	7
2	Self-Excitation Thresholds in RF Structures. IEEE Transactions on Electron Devices, 2022, 69, 2611-2617.	1.6	3
3	Short-wavelength reverberant wave systems for physical realization of reservoir computing. Physical Review Research, 2022, 4, .	1.3	8
4	Gradient-based optimization of 3D MHD equilibria. Journal of Plasma Physics, 2021, 87, .	0.7	8
5	Application of High-Frequency Leakage Current Model for Characterizing Failure Modes in Digital Logic Gates. Energies, 2021, 14, 2906.	1.6	1
6	Wireless power distributions in multi-cavity systems at high frequencies. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200228.	1.0	2
7	The Science of Electronics in Extreme Electromagnetic Environments I - Enclosure Coupling. , 2021, , .		1
8	Adjoint Approach to Analysis of External Circuit Effects in Vacuum Electronic Devices*. , 2021, , .		0
9	Adjoint Approach to Optimization and Sensitivity Analysis of External Circuit Effects in Vacuum Electronic Devices. , 2021, , .		1
10	Towards hybrid statistical-deterministic wireless channel modelling of multiroom environments. , 2020, , .		0
11	Electron beam propagation and magnetic structure formation in a strongly magnetized, collisional plasma. High Energy Density Physics, 2020, 37, 100881.	0.4	2
12	Adjoint approach to calculating shape gradients for three-dimensional magnetic confinement equilibria. Part 2. Applications. Journal of Plasma Physics, 2020, 86, .	0.7	10
13	Efficient Statistical Model for Predicting Electromagnetic Wave Distribution in Coupled Enclosures. Physical Review Applied, 2020, 14, .	1.5	12
14	Wave scattering properties of multiple weakly coupled complex systems. Physical Review E, 2020, 101, 022201.	0.8	9
15	Wavefront shaping with a tunable metasurface: Creating cold spots and coherent perfect absorption at arbitrary frequencies. Physical Review Research, 2020, 2, .	1.3	21
16	Numerical Determination of Vacuum Electronic Device Stability. IEEE Transactions on Plasma Science, 2020, 48, 4171-4180.	0.6	6
17	A Stochastic Green's Function for Solution of Wave Propagation in Wave-Chaotic Environments. IEEE Transactions on Antennas and Propagation, 2020, 68, 3919-3933.	3.1	9
18	Adjoint Approach to Optimization and Sensitivity Analysis of Beam Wave Interaction in Vacuum Electronic Devices. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	Adjoint Approach to Optimization of Beam Wave Interaction. , 2020, , .		0
20	High-Frequency Electromagnetic Coupling Calculation Using the Dynamical Energy Analysis by Discrete Flow Method. , 2019, , .		1
21	Physics of efficient gridless tetrodes with intense electron beams. Physics of Plasmas, 2019, 26, 093101.	0.7	2
22	Calculation and Application of Impedance Matrices for Vacuum Electronic Devices. IEEE Transactions on Electron Devices, 2019, 66, 2409-2414.	1.6	6
23	Adjoint approach to beam optics sensitivity based on Hamiltonian particle dynamics. Physics of Plasmas, 2019, 26, .	0.7	13
24	Scattering statistics in nonlinear wave chaotic systems. Chaos, 2019, 29, 033113.	1.0	4
25	Adjoint approach to calculating shape gradients for three-dimensional magnetic confinement equilibria. Journal of Plasma Physics, 2019, 85, .	0.7	12
26	Electromagnetic Compatibility in Leakage Current of CMOS Integrated Circuits. , 2019, , .		1
27	A Novel Statistical Model for the Electromagnetic Coupling to Electronics inside Enclosures. , 2019, , .		2
28	Extraction of the coupling impedance in overmoded cavities. Wave Motion, 2019, 87, 123-131.	1.0	6
29	Efficient Calculation of Impedance Matrices for Vacuum Electronic Device Circuit Structures. IEEE Transactions on Electron Devices, 2018, 65, 2264-2271.	1.6	4
30	Head and Tail Compression of an Electron Beam. , 2018, , .		0
31	Multi-Stream Instability in UMER. , 2018, , .		1
32	Implementing Traditional Longitudinal Beam Focusing in UMER. , 2018, , .		0
33	Experimental studies on radio frequency sources for ionospheric heaters. Physics of Plasmas, 2018, 25, .	0.7	0
34	Revealing underlying universal wave fluctuations in a scaled ray-chaotic cavity with remote injection. Physical Review E, 2018, 97, 062220.	0.8	7
35	Design and Recent Status of the NRL Low Voltage Folded Waveguide Four Beam Mini-TWT. , 2018, , .		0
36	Simulations of High Power High Efficiency Sources for Mobile Ionospheric Heating. , 2018, , .		0

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37	Modeling Vacuum Electronic Devices Using Generalized Impedance Matrices. IEEE Transactions on Electron Devices, 2017, 64, 536-542.	1.6	34
38	Stagnation of electron flow by a nonlinearly generated whistler wave. Journal of Plasma Physics, 2017, 83, .	0.7	4
39	Modeling the network dynamics of pulse-coupled neurons. Chaos, 2017, 27, 033102.	1.0	24
40	High-power tunable laser driven THz generation in corrugated plasma waveguides. Physics of Plasmas, 2017, 24, .	0.7	24
41	The Path to a Transportable Ionospheric Heater—Tuning Methods. IEEE Transactions on Plasma Science, 2017, 45, 1051-1057.	0.6	6
42	Frequency and phase synchronization in large groups: Low dimensional description of synchronized clapping, firefly flashing, and cricket chirping. Chaos, 2017, 27, 051101.	1.0	20
43	High efficiency inductive output tubes with intense annular electron beams. Physics of Plasmas, 2017, 24, 103116.	0.7	2
44	Nonlinear wave chaos: statistics of second harmonic fields. Chaos, 2017, 27, 103114.	1.0	6
45	Highly efficient, megawatt-class, radio frequency source for mobile ionospheric heaters. Journal of Electromagnetic Waves and Applications, 2017, 31, 1786-1801.	1.0	8
46	Coherent oscillations of driven rf SQUID metamaterials. Physical Review E, 2017, 95, 050201.	0.8	16
47	Electron Cyclotron Resonance Gain in the Presence of Collisions. IEEE Transactions on Plasma Science, 2017, 45, 2945-2954.	0.6	2
48	Fusion of first-principles and statistical analyses in complex electronics systems. , 2017, , .		0
49	Compact, efficient, high-power millimeter-wave power boosters. , 2017, , .		0
50	Quantitative statistical analysis with physics-based surrogate modeling for wave chaotic systems. , 2017, , .		1
51	Progress in developing a high efficiency IOT for ionospheric heating. , 2017, , .		1
52	Designing an Electron Gun for a High Efficiency lot Capable of Ionospheric Heating. , 2017, , .		0
53	Modeling Oscillations in TWTs by Using the Tesla-Family of 2D Large-Signal Codes. , 2017, , .		0
54	Accurate, time-domain, electromagnetic simulation of embedded dielectric interfaces in Neptune. , 2016, , .		0

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55	A hybrid method for quantitative statistical analysis of in-situ IC and electronics in complex and wave-chaotic enclosures. , 2016, , .		0
56	Development of large signal codes for modeling of multiple beam folded waveguide TWTs. , 2016, , .		1
57	Suppression of beam merging and hosing instabilities in magnetized fast ignition fusion. Journal of Physics: Conference Series, 2016, 688, 012117.	0.3	0
58	Limiting current of intense electron beams in a decelerating gap. Physics of Plasmas, 2016, 23, .	0.7	3
59	Constant impedance tunable IOT power extraction circuit. , 2016, , .		0
60	Large-signal modeling of vacuum electronic devices based on impedance characterization of slow-wave structures. , 2016, , .		0
61	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. Chaos, 2016, 26, 094811.	1.0	58
62	Accurate Electromagnetic simulation of dielectrics in device structures using Neptune. , 2016, , .		0
63	Strong-field ionization and gauge dependence of nonlocal potentials. Physical Review A, 2016, 94, .	1.0	3
64	Intermodulation in nonlinear SQUID metamaterials: Experiment and theory. Physical Review B, 2016, 94, .	1.1	13
65	A quantitative statistical analysis of in-situ IC and electronics in complex and wave-chaotic enclosures. , 2016, , .		0
66	Laser pulse driven terahertz generation via resonant transition radiation in inhomogeneous plasmas. Physics of Plasmas, 2016, 23, .	0.7	14
67	Random coupling model for the radiation of statistical sources inside cavities. , 2016, , .		1
68	Novel high-power Radio-Frequency sources for Ionospheric Heating. , 2016, , .		0
69	Designing an electron gun for an efficient Mobile Ionospheric Heating Source. , 2016, , .		0
70	The path to a transportable ionospheric heater. , 2016, , .		0
71	Advanced large signal modeling of vacuum electronic devices based on impedance characterization of slow-wave structures. , 2016, , .		0
72	Focusing waves at arbitrary locations in a ray-chaotic enclosure using time-reversed synthetic sonas. Physical Review E, 2016, 93, 052205.	0.8	18

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73	A high-performance distributed computing framework for parametric design optimization of RF devices. , 2016, , .		0
74	Novel high-power radio-frequency sources for mobile ionospheric heating. , 2016, , .		0
75	Simulation of laser pulse driven terahertz generation in inhomogeneous plasmas. AIP Conference Proceedings, 2016, , .	0.3	1
76	Large-Signal 2-D Modeling of Folded-Waveguide Traveling Wave Tubes. IEEE Transactions on Electron Devices, 2016, 63, 2531-2537.	1.6	19
77	A Statistical Model for the Excitation of Cavities Through Apertures. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1049-1061.	1.4	25
78	Stochastic Kron's model inspired from the Random Coupling Model. , 2015, , .		4
79	Positron Acceleration by Plasma Wakefields Driven by a Hollow Electron Beam. Physical Review Letters, 2015, 115, 195001.	2.9	38
80	Spatially embedded growing small-world networks. Scientific Reports, 2015, 4, 7047.	1.6	8
81	Random coupling model for the radiation of irregular apertures. Radio Science, 2015, 50, 678-687.	0.8	5
82	Understanding electromagnetic properties of complex enclosures by means of wave chaos. , 2015, , .		0
83	Absolute Instability near the Band Edge of Traveling-Wave Amplifiers. Physical Review Letters, 2015, 115, 124801.	2.9	31
84	Simulation of Drive-Induced Oscillation in Coupled-Cavity TWTs. IEEE Transactions on Electron Devices, 2015, 62, 4271-4277.	1.6	3
85	Application of the random coupling model to lossy ports in complex enclosures. , 2015, , .		2
86	Simulation of laser pulse driven terahertz generation in corrugated plasma channels. , 2015, , .		0
87	Universal Instability for Wavelengths below the Ion Larmor Scale. Physical Review Letters, 2015, 114, 095003.	2.9	25
88	Plasma wakefield acceleration studies using the quasi-static code WAKE. Physics of Plasmas, 2015, 22, .	0.7	12
89	Impact of imperfect information on network attack. Physical Review E, 2015, 91, 032807.	0.8	4
90	Harmonic gyrotrons operating in high-order symmetric modes. Applied Physics Letters, 2015, 106, 013502.	1.5	9

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91	Random coupling model for wireless communication channels. , 2014, , .		1
92	Using whole structure modes in the large-signal modeling of TWTS with arbitrary slow-wave structures. , 2014, , .		0
93	Planar slow-wave structure with parasitic modes control. , 2014, , .		0
94	Random Coupling Model for interconnected wireless environments. , 2014, , .		4
95	The effects of non-uniform loss on time reversal mirrors. AIP Advances, 2014, 4, 087138.	0.6	5
96	1-D Large Signal Model of Folded-Waveguide Traveling Wave Tubes. IEEE Transactions on Electron Devices, 2014, 61, 1699-1706.	1.6	29
97	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.	1.0	85
98	Planar Slow-Wave Structure With Parasitic Mode Control. IEEE Transactions on Electron Devices, 2014, 61, 1655-1660.	1.6	5
99	New modular implementation of 2D large-signal code and its application to the modeling of wide class of TWT amplifiers. , 2014, , .		1
100	Drive induced oscillations in coupled cavity TWTs and opportunities for their control. , 2014, , .		1
101	Vacuum electronic device design using 3D EM-PIC. , 2014, , .		7
102	Dependence of the gyrotron efficiency on the azimuthal index of non-symmetric modes. Physics of Plasmas, 2014, 21, 063112.	0.7	0
103	Model for atomic dielectric response in strong, time-dependent laser fields. Physical Review A, 2014, 89, .	1.0	10
104	Phase and amplitude dynamics in large systems of coupled oscillators: Growth heterogeneity, nonlinear frequency shifts, and cluster states. Chaos, 2013, 23, 033116.	1.0	13
105	Pulsed mid-infrared radiation from spectral broadening in laser wakefield simulations. Physics of Plasmas, 2013, 20, .	0.7	25
106	Transmission Line Model for Folded Waveguide Circuits. IEEE Transactions on Electron Devices, 2013, 60, 2906-2911.	1.6	30
107	Effects of random circuit fabrication errors on the mean and standard deviation of small signal gain and phase in a traveling wave tube. , 2013, , .		0
108	Modeling of the NRL G-Band TWT amplifier using the CHRISTINE and TESLA simulation codes. , 2013, , .		7

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109	Dispersive properties of serpentine and folded waveguide circuits. , 2013, , .		0
110	Open planar sheath slow-wave structure. , 2013, , .		3
111	Nonlinear time reversal of classical waves: Experiment and model. Physical Review E, 2013, 88, 062910.	0.8	20
112	Parallel 2D large-signal modeling of cascaded TWT amplifiers. , 2013, , .		1
113	THz generation by optical Cherenkov emission from ionizing two-color laser pulses. Physical Review A, 2013, 88, .	1.0	32
114	Interconnection of complex cavities analyzed by the Random Coupling Model. , 2013, , .		0
115	An improved iteration loop for the three dimensional quasi-static particle-in-cell algorithm: QuickPIC. Journal of Computational Physics, 2013, 250, 165-177.	1.9	50
116	Nonlinear Time Reversal in a Wave Chaotic System. Physical Review Letters, 2013, 110, 063902.	2.9	44
117	Effect of Electron Emission on Microparticle Heating and Melting in High-Power Microwave Systems. IEEE Transactions on Plasma Science, 2013, 41, 70-76.	0.6	10
118	Statistical model of short wavelength transport through cavities with coexisting chaotic and regular ray trajectories. Physical Review E, 2013, 87, 062906.	0.8	5
119	Weakly explosive percolation in directed networks. Physical Review E, 2013, 87, 052127.	0.8	17
120	Effects of Random Circuit Fabrication Errors on the Mean and Standard Deviation of Small Signal Gain and Phase of a Traveling Wave Tube. IEEE Journal of the Electron Devices Society, 2013, 1, 117-128.	1.2	11
121	Quantifying volume changing perturbations in a wave chaotic system. New Journal of Physics, 2013, 15, 023025.	1.2	21
122	Heating of microprotrusions in accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	29
123	Dynamic localization of a weakly interacting Bose-Einstein condensate in an anharmonic potential. Physical Review A, 2013, 87, .	1.0	3
124	Open planar sheath slow-wave structure. , 2013, , .		1
125	Studies of spectral modification and extensions of the paraxial equation in laser wakefield simulations. , 2013, , .		1
126	Theory and simulation of quasi-phase matched acceleration of electrons in a corrugated plasma channel. , 2013, , .		0

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127	Theoretical analysis of apertures radiating inside wave chaotic cavities. , 2012, , .		8
128	Quasi-phase-matched acceleration of electrons in a corrugated plasma channel. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	19
129	Multiscale dynamics in communities of phase oscillators. Chaos, 2012, 22, 013102.	1.0	28
130	Echoes and revival echoes in systems of anharmonically confined atoms. Physical Review A, 2012, 86, .	1.0	23
131	Impedance and power fluctuations in linear chains of coupled wave chaotic cavities. Physical Review E, 2012, 86, 046204.	0.8	17
132	First-principles model of time-dependent variations in transmission through a fluctuating scattering environment. Physical Review E, 2012, 85, 015202.	0.8	29
133	A simple hybrid circuit model for folded waveguide structures. , 2012, , .		8
134	Theory of chaos regularization of tunneling in chaotic quantum dots. Physical Review E, 2012, 86, 056212.	0.8	9
135	Compression, spectral broadening, and collimation in multiple, femtosecond pulse filamentation in atmosphere. Physical Review A, 2012, 86, .	1.0	26
136	A Computationally Efficient Two-Dimensional Model of the Beam-Wave Interaction in a Coupled-Cavity TWT. IEEE Transactions on Plasma Science, 2012, 40, 1575-1589.	0.6	40
137	Statistical Prediction and Measurement of Induced Voltages on Components Within Complicated Enclosures: A Wave-Chaotic Approach. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 758-771.	1.4	68
138	Validation study for the large-signal code TESLA-CC based on experimental Ka-band Coupled-Cavity TWT. , 2012, , .		3
139	2D modeling of TWTs based on serpentine and folded waveguide structures. , 2012, , .		11
140	Axially Periodic Dielectric-Loaded Circular Waveguide for Microwave/Millimeter-Wave Devices. IEEE Transactions on Plasma Science, 2012, 40, 3420-3426.	0.6	2
141	Stability of gyrotron operation in very high-order modes. Physics of Plasmas, 2012, 19, .	0.7	11
142	Regions of azimuthal instability in gyrotrons. Physics of Plasmas, 2012, 19, 063103.	0.7	6
143	Possible standoff detection of ionizing radiation using high-power THz electromagnetic waves. Proceedings of SPIE, 2012, , .	0.8	1
144	Studies of spectral modification and limitations of the modified paraxial equation in laser wakefield simulations. Physics of Plasmas, 2012, 19, .	0.7	21

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145	Stability of gyrotron operation on the second harmonic. , 2012, , .		0
146	Simulations of femtosecond atmospheric filaments enhanced by dual pulse molecular alignment. Physical Review A, 2012, 85, .	1.0	17
147	Effects of Multiple Internal Reflections on the Small-Signal Gain and Phase of a TWT. IEEE Transactions on Electron Devices, 2012, 59, 1542-1550.	1.6	16
148	Continuum modeling of the equilibrium and stability of animal flocks. Physica D: Nonlinear Phenomena, 2012, 241, 472-480.	1.3	7
149	Nonperiodic Perturbations in Periodic RF Structures. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 915-929.	2.9	15
150	Statistical characterization of complex enclosures with distributed ports. , 2011, , .		9
151	The dynamics of network coupled phase oscillators: An ensemble approach. Chaos, 2011, 21, 025103.	1.0	26
152	Wave chaotic analysis of weakly coupled reverberation chambers. , 2011, , .		3
153	Simulation of terahertz generation in corrugated plasma waveguides. Physical Review E, 2011, 83, 056403.	0.8	10
154	Chaos regularization of quantum tunneling rates. Physical Review E, 2011, 83, 065201.	0.8	23
155	Studies of gyrotron second harmonic operation in high-order modes. , 2011, , .		0
156	Mode excitation during start-Up of a 1.5 MW, 110 GHz gyrotron. , 2011, , .		1
157	Numerical study of efficiency for a 670 GHz gyrotron. Physics of Plasmas, 2011, 18, .	0.7	31
158	Models of the delayed nonlinear Raman response in diatomic gases. Physical Review A, 2011, 84, .	1.0	8
159	Validation study of the TESLA model for extended interaction klystron. , 2011, , .		2
160	Coupling a waveguide input into a sheet-beam coupled-cavity slow-wave structure. , 2011, , .		3
161	GPU-accelerated 3D time-domain simulation of vacuum electron devices. , 2011, , .		2
162	Effect of Metallic Dust on Operation of Repetition-Rate High-Power Microwave Devices. IEEE Transactions on Plasma Science, 2011, 39, 1680-1683.	0.6	5

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163	Large-Signal Multifrequency Simulation of Coupled-Cavity TWTs. IEEE Transactions on Electron Devices, 2011, 58, 1229-1240.	1.6	39
164	Development of THz-range Gyrotrons for Detection of Concealed Radioactive Materials. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 380-402.	1.2	47
165	Local synchronization in complex networks of coupled oscillators. Chaos, 2011, 21, 025109.	1.0	27
166	Comment on "Long time evolution of phase oscillator systems" [Chaos, 19, 023117 (2009)]. Chaos, 2011, 21, 025112.	1.0	64
167	Excitation of backward waves in beam tunnels with saw-teeth wall profiles in gyrotrons. , 2011, , .		0
168	Quantum chaos of a mixed open system of kicked cold atoms. Physical Review E, 2011, 83, 016204.	0.8	14
169	Raman scattering of intense, short laser pulses in modulated plasmas. Physical Review E, 2011, 83, 046410.	0.8	5
170	Dynamics and pattern formation in large systems of spatially-coupled oscillators with finite response times. Chaos, 2011, 21, 023122.	1.0	40
171	Iterative time reversal with tunable convergence. Electronics Letters, 2011, 47, 1165.	0.5	12
172	Universal and nonuniversal properties of wave-chaotic scattering systems. Physical Review E, 2010, 81, 025201.	0.8	30
173	Obstacle and predator avoidance in a model for flocking. Physica D: Nonlinear Phenomena, 2010, 239, 988-996.	1.3	23
174	Orotron-based sub-millimeter-wave source. Proceedings of SPIE, 2010, , .	0.8	0
175	Modeling of a G-band extended interaction klystron using the large-signal code TESLA. , 2010, , .		2
176	5.5: A new complex envelope ADI-FDTD algorithm for 3D simulation of slow wave structures. , 2010, , .		1
177	Sensing small changes in a wave chaotic scattering system. Journal of Applied Physics, 2010, 108, 114911.	1.1	18
178	Temperature rise and stress induced by microcracks in accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	0
179	Direct Measurement of the Electron Density of Extended Femtosecond Laser Pulse-Induced Filaments. Physical Review Letters, 2010, 105, 215005.	2.9	131
180	Modeling thermal beam effects in coupled cavity TWTs. , 2010, , .		0

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181	Efficient simulation of electron trapping in laser and plasma wakefield acceleration. Physics of Plasmas, 2010, 17, .	0.7	16
182	Fast implicit time-domain simulation of complex 3D slow-wave structures. , 2010, , .		0
183	Foreword to Special Issue: Papers from the 51st Annual Meeting of the APS Division of Plasma Physics, Atlanta, Georgia, 2009. Physics of Plasmas, 2010, 17, 055301.	0.7	1
184	Effect of the thickness of electron beams on the gyrotron efficiency. Physics of Plasmas, 2010, 17, 083105.	0.7	30
185	Radiation generated by bunched electron beams in corrugated plasma channels. Physics of Plasmas, 2010, 17, 073112.	0.7	2
186	Possibilities for reducing the aftercavity interaction effect in gyrotrons. Physics of Plasmas, 2010, 17, 083106.	0.7	8
187	Self-Excitation of a Tapered Gyrotron Oscillator. IEEE Transactions on Plasma Science, 2010, 38, 1200-1207.	0.6	16
188	Nonlinear Analysis of Low-Frequency Oscillations in Gyrotrons. IEEE Transactions on Plasma Science, 2010, 38, 1178-1184.	0.6	4
189	Excitation of Backward Waves in Beam Tunnels of High-Power Gyrotrons. IEEE Transactions on Plasma Science, 2010, 38, 1193-1199.	0.6	23
190	Single-Mode Excitation in High-Power Gyrotrons by Controlling Gun Perveance. IEEE Transactions on Plasma Science, 2010, 38, 1160-1167.	0.6	5
191	Experimental examination of the effect of short ray trajectories in two-port wave-chaotic scattering systems. Physical Review E, 2010, 82, 041114.	0.8	37
192	Particle in cell analysis of a laser-cluster interaction including collision and ionization processes. Optics Express, 2010, 18, 2389.	1.7	18
193	Influence of the Weibel instability on the expansion of a plasma slab into a vacuum. Physical Review E, 2010, 82, 026408.	0.8	12
194	Excitation of parasitic waves near cutoff in forward-wave amplifiers. Physical Review E, 2010, 82, 046404.	0.8	5
195	8.1: Nonlinear characteristics of transverse interaction in sheet beam amplifiers. , 2010, , .		0
196	10.5: Development of THz gyrotrons with pulse solenoids for detecting concealed radioactive materials. , 2010, , .		7
197	P3-2: Some possibilities for reducing after-cavity interaction in gyrotrons. , 2010, , .		0
198	16.1: 2D modeling of beam-wave interaction in coupled cavity TWT with TESLA. , 2010, , .		8

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199	16.2: Stability and higher-order mode interaction of a sheet-beam coupled-cavity slow-wave structure. , 2010, , .		2
200	Slow wave plasma structures for direct electron acceleration. New Journal of Physics, 2010, 12, 095011.	1.2	14
201	Characterization of a Ka-band Sheet-Beam Coupled-Cavity Slow-Wave Structure. IEEE Transactions on Plasma Science, 2010, 38, 1244-1254.	0.6	38
202	Compact 3-D Envelope ADI-FDTD Algorithm for Simulations of Coherent Radiation Sources. IEEE Transactions on Plasma Science, 2010, 38, 1439-1449.	0.6	8
203	Possible role of rf melted microparticles on the operation of high-gradient accelerating structures. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	11
204	Exact results for the Kuramoto model with a bimodal frequency distribution. Physical Review E, 2009, 79, 026204.	0.8	230
205	Large Coupled Oscillator Systems with Heterogeneous Interaction Delays. Physical Review Letters, 2009, 103, 044101.	2.9	103
206	Effect of short ray trajectories on the scattering statistics of wave chaotic systems. Physical Review E, 2009, 80, 041109.	0.8	38
207	Scattering a pulse from a chaotic cavity: Transitioning from algebraic to exponential decay. Physical Review E, 2009, 79, 016208.	0.8	9
208	Interaction of an ultrashort laser pulse and relativistic electron beam in a corrugated plasma channel. Physical Review E, 2009, 80, 016409.	0.8	17
209	Sensor based on extending the concept of fidelity to classical waves. Applied Physics Letters, 2009, 95, .	1.5	24
210	Frequency domain simulation of drive induced oscillation in a coupled cavity TWT. , 2009, , .		7
211	Intense Sheet Electron Beam Transport in a Uniform Solenoidal Magnetic Field. IEEE Transactions on Electron Devices, 2009, 56, 744-752.	1.6	141
212	Accurate Representation of Attenuation in Helix TWT Simulation Codes. IEEE Transactions on Electron Devices, 2009, 56, 935-944.	1.6	10
213	A leapfrog formulation of the 3D ADI-FDTD algorithm. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2009, 22, 187-200.	1.2	88
214	Long time evolution of phase oscillator systems. Chaos, 2009, 19, 023117.	1.0	386
215	Effect of electric-field fluctuations on rotational revival amplitudes. Physical Review A, 2009, 80, .	1.0	5
216	Solenoidal transport of low-voltage sheet beams for millimeter wave amplifiers. , 2009, , .		7

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217	Self-consistent nonstationary two-dimensional model of multipactor in dielectric-loaded accelerator structures. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	21
218	TESLA modeling of the linear-beam amplifiers. , 2009, , .		2
219	Modeling of coupled cavity TWT with TESLA. , 2009, , .		8
220	Experimental characterization of a Ka-band sheet-beam coupled-cavity slow-wave structure. , 2009, , .		6
221	TESLA modelling of klystrons with multigap resonators. , 2008, , .		1
222	Analytical theory of low-frequency space charge oscillations in gyrotrons. <i>Physics of Plasmas</i> , 2008, 15, 103102.	0.7	10
223	MAGY Simulations of Mode Interaction in a Coaxial Gyrotron. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 606-619.	0.6	9
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