

Antonio C Ting

List of Publications by Year in descending order

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216
papers

7,990
citations

87401

40
h-index

56606

87
g-index

223
all docs

223
docs citations

223
times ranked

2540
citing authors

#	ARTICLE	IF	CITATIONS
1	Seed source for plasma compression in the long wavelength infrared. Physics of Plasmas, 2021, 28, .	0.7	1
2	Dynamic sheath formation and sub-THz radiation from laser-metal interactions. Physics of Plasmas, 2020, 27, .	0.7	7
3	Broadband terahertz radiation from metal targets irradiated by a short pulse laser. Physics of Plasmas, 2020, 27, .	0.7	5
4	Nonlinear underwater propagation of picosecond ultraviolet laser beams. Optics Letters, 2020, 45, 4344.	1.7	5
5	Physics of efficient gridless tetrodes with intense electron beams. Physics of Plasmas, 2019, 26, 093101.	0.7	2
6	A laser-plasma accelerator driven by two-color relativistic femtosecond laser pulses. Science Advances, 2019, 5, eaav7940.	4.7	23
7	Experimental studies on radio frequency sources for ionospheric heaters. Physics of Plasmas, 2018, 25, .	0.7	0
8	The generation of collimated γ -ray pulse from the interaction between 10 PW laser and a narrow tube target. Applied Physics Letters, 2018, 112, .	1.5	19
9	Scaled experimental studies on radio frequency source for megawatt-class ionospheric heaters. , 2018, , .		0
10	Staging and laser acceleration of ions in underdense plasma. AIP Conference Proceedings, 2017, , .	0.3	1
11	Laser acceleration of protons with an optically shaped, near-critical hydrogen gas target. AIP Conference Proceedings, 2017, , .	0.3	3
12	High efficiency inductive output tubes with intense annular electron beams. Physics of Plasmas, 2017, 24, 103116.	0.7	2
13	Highly efficient, megawatt-class, radio frequency source for mobile ionospheric heaters. Journal of Electromagnetic Waves and Applications, 2017, 31, 1786-1801.	1.0	8
14	Progress in developing a high efficiency IOT for ionospheric heating. , 2017, , .		1
15	Designing an Electron Gun for a High Efficiency IOT Capable of Ionospheric Heating. , 2017, , .		0
16	High-power lasers for directed-energy applications: reply. Applied Optics, 2017, 56, 4825.	2.1	7
17	A nonlinear plasma retroreflector for single pulse Compton backscattering. AIP Conference Proceedings, 2016, , .	0.3	0
18	Prospects of coherent Compton backscattered X-rays from self-generated wiggler in a laser wakefield accelerator. AIP Conference Proceedings, 2016, , .	0.3	0

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19	Accelerated protons from near critical density gaseous targets. AIP Conference Proceedings, 2016, , .	0.3	1
20	Nonlinear frequency shift in Raman backscattering and its implications for plasma diagnostics. Physics of Plasmas, 2016, 23, .	0.7	11
21	Implementation of a long range, distributed-volume, continuously variable turbulence generator. Applied Optics, 2016, 55, 5192.	2.1	15
22	Laser-Accelerated Ions from a Shock-Compressed Gas Foil. Physical Review Letters, 2016, 117, 165001.	2.9	38
23	Intense underwater laser propagation, ionization and heating for remote shaped plasma generation. , 2016, , .		0
24	Microwave interactions with laser-generated air plasma filaments and acoustic shocks. , 2016, , .		0
25	Laser plasmas from picosecond laser filamentation in the atmosphere and its application on guided high voltage discharges. , 2016, , .		0
26	Extending laser plasma accelerators into the mid-IR spectral domain with a next-generation ultra-fast CO ₂ laser. Plasma Physics and Controlled Fusion, 2016, 58, 034003.	0.9	11
27	Observation of monoenergetic protons from a near-critical gas target tailored by a hydrodynamic shock. Proceedings of SPIE, 2015, , .	0.8	3
28	Laser accelerated ions from near critical gaseous targets. Proceedings of SPIE, 2015, , .	0.8	4
29	Simulation of free-space optical guiding structure based on colliding gas flows. Applied Optics, 2015, 54, F144.	2.1	7
30	A nonlinear plasma retroreflector for single pulse Compton backscattering. New Journal of Physics, 2015, 17, 023072.	1.2	5
31	High-power lasers for directed-energy applications. Applied Optics, 2015, 54, F201.	2.1	123
32	Nonlinear Focusing of Ultrashort Laser Pulses in Atmospheric Turbulence. , 2015, , .		0
33	Determination of absorption coefficient based on laser beam thermal blooming in gas-filled tube. Applied Optics, 2014, 53, 5016.	0.9	8
34	Advanced TIL system for laser beam focusing in a turbulent regime. , 2014, , .		0
35	Theoretical and numerical investigation of filament onset distance in atmospheric turbulence. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 963.	0.9	28
36	Shaping gas jet plasma density profile by laser generated shock waves. Journal of Applied Physics, 2014, 116, .	1.1	25

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37	Remote atmospheric optical magnetometry. Journal of Applied Physics, 2014, 116, 064902.	1.1	7
38	Time-resolved spectroscopy and modeling of underwater laser ionization and filamentation for electrical discharge guiding. , 2014, , .		0
39	Formation and propagation of meter-scale laser filaments in water. Applied Physics Letters, 2013, 103, 121101.	1.5	34
40	Origin and control of the subpicosecond pedestal in femtosecond laser systems. Optics Letters, 2013, 38, 3635.	1.7	15
41	Femtosecond laser-induced breakdown spectroscopy of surface nitrate chemicals. Applied Optics, 2013, 52, 3048.	0.9	8
42	Laser acceleration and injection of particles in optically shaped gas targets. Proceedings of SPIE, 2013, , .	0.8	2
43	High-resolution femtosecond measurements of underwater laser ionization and filamentation for electrical discharge guiding. , 2013, , .		0
44	Development of a high average current rf linac thermionic injector. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	9
45	Laser heating of uncoated optics in a convective medium. Applied Optics, 2012, 51, 2573.	0.9	6
46	Extending electro-optic detection to ultrashort electron beams. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	8
47	The nonlinear OPC technique for laser beam control in turbulent atmosphere. Proceedings of SPIE, 2012, , .	0.8	2
48	Radiation signatures of laser driven wakes in plasmas. , 2011, , .		0
49	Electro-optic detection of ultrashort electron beams: moving beyond the transverse optical phonon resonance. , 2011, , .		0
50	High average current electron guns for high-power free electron lasers. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	23
51	Measurements and simulations of shock wave generated plasma-vacuum interface. Physics of Plasmas, 2011, 18, .	0.7	12
52	Application of a scattered-light radiometric power meter. Review of Scientific Instruments, 2011, 82, 043101.	0.6	2
53	Plasma Density Tapering for Laser Wakefield Acceleration of Electrons and Protons. , 2010, , .		2
54	Extending Electro-Optic Detection of Short Particle Beams Beyond the Transverse Phonon Resonance. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	Electro-Optic and Terahertz Diagnostics. , 2010, , .		3
56	Electro-optic shocks from blowout laser wakefields. New Journal of Physics, 2010, 12, 045026.	1.2	1
57	Measurements of colliding shock wave and supersonic gas flow. Applied Physics Letters, 2010, 97, 191501.	1.5	5
58	Quasi-remote laser pulse compression and applications. , 2010, , .		0
59	Measurement of Electro-Optic Shock and Electron Acceleration in a Strongly Cavitated Laser Wakefield Accelerator. Physical Review Letters, 2010, 105, 105001.	2.9	15
60	Nonlinear RF and space-charge induced emittance growth in a thermionic injector accelerating cavity. , 2010, , .		0
61	Measurements of the correlation between plasma bubble dynamics and electron trapping in a laser wakefield accelerator. , 2010, , .		0
62	Particle-in-cell modeling of RF-gated thermionic electron guns. , 2010, , .		0
63	High average current injectors for free electron lasers. , 2010, , .		0
64	Ultra-short pulse laser-generated plasma flares in air and on dielectric surfaces. , 2010, , .		0
65	Laser heating of air plasmas seeded by ultrashort pulse filaments. , 2009, , .		0
66	Nonlinear conversion of photon spin to photon orbital angular momentum. Optics Letters, 2009, 34, 3280.	1.7	19
67	Optical quality of high-power laser beams in lenses. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 503.	0.9	24
68	Direct measurements of the nonlinear index of refraction of water at 815 and 407 nm using single-shot supercontinuum spectral interferometry. Applied Physics Letters, 2009, 94, 211102.	1.5	52
69	Characterization of underwater laser acoustic source for navy applications. , 2009, , .		3
70	Second harmonic generation and off-axis electrons in the blowout regime of a Laser Wakefield Accelerator. , 2009, , .		0
71	Incoherent Combining and Atmospheric Propagation of High-Power Fiber Lasers for Directed-Energy Applications. IEEE Journal of Quantum Electronics, 2009, 45, 138-148.	1.0	114
72	Optical Bandwidth and Focusing Dynamics Effects on an Underwater Laser Acoustic Source. , 2009, , .		0

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73	Electro-Optic Shocks from Ultraintense Laser-Plasma Interactions. Physical Review Letters, 2008, 101, 045004.	2.9	18
74	$\langle \text{mml:mrow} \langle \text{mml:mo} \langle \text{mml:mn} 3 \text{mml:mn} \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} 1 \text{mml:mn} \langle \text{mml:mo} \rangle \rangle \rangle$ numerical simulations of femtosecond laser filaments in air: Toward a quantitative agreement with experiments. Physical Review E, 2008, 77, 036406.	0.8	38
75	Observation of Large-Angle Quasimonoenergetic Electrons from a Laser Wakefield. Physical Review Letters, 2008, 100, 215002.	2.9	19
76	GUIDING OF HIGH LASER INTENSITIES IN LONG PLASMA CHANNELS. International Journal of Modern Physics B, 2007, 21, 361-371.	1.0	1
77	Propagation of femtosecond filaments in air: (3+1) dimensional numerical simulations versus experiments. , 2007, , .		0
78	Laser plasma acceleration experiment at the naval research laboratory. , 2007, , .		0
79	Conductivity Measurements of Femtosecond Laser-Plasma Filaments. IEEE Transactions on Plasma Science, 2007, 35, 1430-1436.	0.6	34
80	Tunable, high peak power terahertz radiation from optical rectification of a short modulated laser pulse. Optics Express, 2006, 14, 6813.	1.7	7
81	Inverse free electron lasers and laser wakefield acceleration driven by CO ₂ lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 611-622.	1.6	5
82	Long plasma channels in segmented capillary discharges. Physics of Plasmas, 2006, 13, 083108.	0.7	13
83	Remote underwater ultrashort pulse laser acoustic source. , 2006, , .		5
84	Generation and measurements of high energy injection electrons from the high density laser ionization and ponderomotive acceleration. Physics of Plasmas, 2005, 12, 010701-010701-4.	0.7	7
85	First demonstration of a staged all-optical laser wakefield acceleration. Physics of Plasmas, 2005, 12, 100702.	0.7	27
86	Longitudinal profiles of plasma parameters in a laser-ignited capillary discharge and implications for laser wakefield accelerator applications. Applied Physics Letters, 2005, 87, 261501.	1.5	15
87	Quasimonoenergetic electrons from unphased injection into channel guided laser wakefield accelerators. Physical Review E, 2005, 71, 026404.	0.8	43
88	Prospects for an Integrated Experimental Demonstration of a Channel-Guided, Standard Laser Wakefield Accelerator. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
89	Pseudoresonant laser Wakefield acceleration driven by 10.6- μm laser light. IEEE Transactions on Plasma Science, 2005, 33, 3-7.	0.6	8
90	Trapping and acceleration of nonideal injected electron bunches in laser Wakefield accelerators. IEEE Transactions on Plasma Science, 2005, 33, 712-722.	0.6	14

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91	Laser Injection and Channel Guided Acceleration of Electrons in a Laser Wakefield Accelerator. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
92	Direct characterization of self-guided femtosecond laser filaments in air. Applied Optics, 2005, 44, 1474.	2.1	29
93	Remote atmospheric breakdown for standoff detection by using an intense short laser pulse. Applied Optics, 2005, 44, 5315.	2.1	15
94	Measurements of intense femtosecond laser pulse propagation in air. Physics of Plasmas, 2005, 12, 056705.	0.7	21
95	Effective Electron Beam Injection With Broad Energy Initial Beam. AIP Conference Proceedings, 2004, , .	0.3	2
96	Trapping and Acceleration of Nonideal Injected Electron Bunches in Channel-Guided LWFAs. AIP Conference Proceedings, 2004, , .	0.3	0
97	High Energy Injection Electrons From The High Density Laser Ionization And Ponderomotive Acceleration. AIP Conference Proceedings, 2004, , .	0.3	1
98	Longitudinal compression of short laser pulses in air. Applied Physics Letters, 2004, 84, 4080-4082.	1.5	27
99	Propagation of ultra-short, intense laser pulses in air. Physics of Plasmas, 2004, 11, 2865-2874.	0.7	67
100	Relativistic effects on intense laser beam propagation in plasma channels. Physics of Plasmas, 2003, 10, 1483-1492.	0.7	54
101	Asymmetric Self-Phase Modulation and Compression of Short Laser Pulses in Plasma Channels. Physical Review Letters, 2003, 90, 215001.	2.9	77
102	Stimulated Raman scattering of intense laser pulses in air. Physical Review E, 2003, 68, 056502.	0.8	39
103	Electron trajectories in the magnetic field of capillary discharge: Application to laser wakefield accelerators in plasma channel. Physics of Plasmas, 2003, 10, 2545-2551.	0.7	4
104	Spatially resolved interferometric measurement of a discharge capillary plasma channel. Physics of Plasmas, 2003, 10, 4504-4512.	0.7	10
105	Streamerless guided electric discharges triggered by femtosecond laser filaments. Physics of Plasmas, 2003, 10, 4530-4538.	0.7	27
106	Raman forward scattering and self-modulation of laser pulses in tapered plasma channels. Physical Review E, 2002, 66, 036402.	0.8	15
107	Temporally resolved Raman backscattering diagnostic of high intensity laser channeling. Review of Scientific Instruments, 2002, 73, 2259-2265.	0.6	9
108	Focusing of Intense Laser Pulses Using Plasma Channels. AIP Conference Proceedings, 2002, , .	0.3	0

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109	GeV acceleration in tapered plasma channels. <i>Physics of Plasmas</i> , 2002, 9, 2364-2370.	0.7	40
110	High intensity focusing of laser pulses using a short plasma channel lens. <i>Physics of Plasmas</i> , 2002, 9, 1431-1442.	0.7	21
111	Summary Report of Working Group 6: Laser-Plasma Acceleration. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	1
112	Ablative and Discharge Capillaries for Optical Guiding and Velocity Control. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	1
113	Progress in the development of a high average power ultra-broadband infrared radiation source. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 641-652.	1.0	8
114	Velocity control and staging in laser wakefield accelerators using segmented capillary discharges. <i>Applied Physics Letters</i> , 2001, 78, 3175-3177.	1.5	24
115	Wakefield generation and GeV acceleration in tapered plasma channels. <i>Physical Review E</i> , 2001, 63, 056405.	0.8	113
116	GeV energy gain in a channel guided laser wakefield accelerator. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	0
117	Measurements of energetic electrons from the high-intensity laser ionization of gases. <i>Physics of Plasmas</i> , 2001, 8, 2481-2487.	0.7	37
118	Simulation and design of stable channel-guided laser wakefield accelerators. <i>Physical Review E</i> , 2001, 63, 036502.	0.8	31
119	Lasing to ground state of ions in discharge created plasma in microcapillary. <i>European Physical Journal Special Topics</i> , 2001, 11, Pr2-165-Pr2-173.	0.2	1
120	Stable Laser-Pulse Propagation in Plasma Channels for GeV Electron Acceleration. <i>Physical Review Letters</i> , 2000, 85, 5110-5113.	2.9	57
121	Transverse modulation of an electron beam generated in self-modulated laser wakefield accelerator experiments. <i>Physical Review E</i> , 2000, 61, 788-792.	0.8	6
122	Relativistic focusing and ponderomotive channeling of intense laser beams. <i>Physical Review E</i> , 2000, 62, 4120-4125.	0.8	132
123	Intense laser pulse propagation in capillary discharge plasma channels. , 1999, , .		3
124	High efficiency guiding of terawatt subpicosecond laser pulses in a capillary discharge plasma channel. <i>Physical Review E</i> , 1999, 59, R4769-R4772.	0.8	71
125	Analysis of Gaussian beam and Bessel beam driven laser accelerators. <i>Physical Review E</i> , 1999, 60, 4779-4792.	0.8	34
126	A Laser-Accelerator Injector Based on Laser Ionization and Ponderomotive Acceleration of Electrons. <i>Physical Review Letters</i> , 1999, 82, 1688-1691.	2.9	121

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127	Is efficiency of gain generation in Li III 13.5-nm laser with 0.25- $\hat{1}$ / ₄ m subpicosecond pulses the same as with 1 $\hat{1}$ / ₄ m?. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1453-1459.	1.9	18
128	Generation of high-average-power ultrabroad-band infrared pulses. IEEE Journal of Quantum Electronics, 1999, 35, 565-576.	1.0	17
129	Laser-induced electron trapping in plasma-based accelerators. , 1999, , .		0
130	Trapping and Acceleration in Self-Modulated Laser Wakefields. Physical Review Letters, 1998, 80, 5552-5555.	2.9	66
131	Frequency mixing of high intensity laser light with stimulated Raman backscattered radiation in underdense plasmas. Physical Review E, 1998, 58, 4030-4032.	0.8	3
132	Large-amplitude radial-plasma-wave generation during high-intensity laser interactions with underdense plasmas. Physical Review E, 1998, 57, 2475-2478.	0.8	2
133	Plasma Channel Formation and Guiding during High Intensity Short Pulse Laser Plasma Experiments. Physical Review Letters, 1997, 78, 4047-4050.	2.9	198
134	Vacuum beat wave acceleration. Physical Review E, 1997, 55, 5924-5933.	0.8	61
135	Plasma wakefield generation and electron acceleration in a self-modulated laser wakefield accelerator experiment. Physics of Plasmas, 1997, 4, 1889-1899.	0.7	174
136	Electron Injection into Plasma Wakefields by Colliding Laser Pulses. Physical Review Letters, 1997, 79, 2682-2685.	2.9	432
137	Plasma channel formation in the wake of a short laser pulse. , 1997, , .		1
138	Electron Trapping in Self-Modulated Laser Wakefields by Raman Backscatter. Physical Review Letters, 1997, 79, 3909-3912.	2.9	130
139	Self-focusing and guiding of short laser pulses in ionizing gases and plasmas. IEEE Journal of Quantum Electronics, 1997, 33, 1879-1914.	1.0	419
140	Proof-of-principle experiment of the vacuum beat wave accelerator. , 1997, , .		0
141	Accelerated electron measurements in the self-modulated laser wakefield accelerator. , 1997, , .		0
142	Laser driven acceleration in vacuum and gases. , 1997, , .		0
143	Electron injection and acceleration by colliding laser pulses in plasmas. , 1997, , .		0
144	Backscattered supercontinuum emission from high-intensity laserâ€“plasma interactions. Optics Letters, 1996, 21, 1096.	1.7	43

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145	Overview of plasma-based accelerator concepts. IEEE Transactions on Plasma Science, 1996, 24, 252-288.	0.6	1,105
146	Pulse propagation in the laser wakefield accelerator. AIP Conference Proceedings, 1996, , .	0.3	0
147	Demonstration experiment of a laser synchrotron source for tunable, monochromatic X-rays at 500 eV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, ABS68-ABS70.	0.7	25
148	Nonlinear Thomson scattering for off-axis interaction geometries. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 545-549.	0.7	6
149	Vacuum laser acceleration. Optics Communications, 1996, 124, 69-73.	1.0	59
150	Temporal Evolution of Self-Modulated Laser Wakefields Measured by Coherent Thomson Scattering. Physical Review Letters, 1996, 77, 5377-5380.	2.9	77
151	Planar lenses for field-emitter arrays. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 571.	1.6	31
152	Observation of 20 eV x-ray generation in a proof-of-principle laser synchrotron source experiment. Journal of Applied Physics, 1995, 78, 575-577.	1.1	34
153	Second Harmonic Generation of Stimulated Raman Scattered Light in Underdense Plasmas. Physical Review Letters, 1995, 75, 3681-3684.	2.9	57
154	Channeling of terawatt laser pulses by use of hollow waveguides. Optics Letters, 1995, 20, 1086.	1.7	93
155	Energy enhancement in a self-modulated laser wakefield accelerator. AIP Conference Proceedings, 1994, , .	0.3	1
156	Laser synchrotron radiation as a compact source of tunable, short pulse hard X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 331, 545-549.	0.7	26
157	Nonlinear analysis of relativistic harmonic generation by intense lasers in plasmas. IEEE Transactions on Plasma Science, 1993, 21, 95-104.	0.6	140
158	Harmonic generation by an intense laser pulse in neutral and ionized gases. IEEE Transactions on Plasma Science, 1993, 21, 90-94.	0.6	73
159	Optically guided laser wakefield acceleration*. Physics of Fluids B, 1993, 5, 2690-2697.	1.7	118
160	Enhanced acceleration in a self-modulated-laser wake-field accelerator. Physical Review E, 1993, 48, 2157-2161.	0.8	150
161	Tunable, short pulse hard x-rays from a compact laser synchrotron source. Journal of Applied Physics, 1992, 72, 5032-5038.	1.1	172
162	Electron acceleration and optical guiding in the laser wakefield accelerator. AIP Conference Proceedings, 1992, , .	0.3	0

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163	Key physics issues affecting the performance of free-electron lasers. , 1992, , .		2
164	Numerical simulation of a 450 MeV single-stage laser wakefield accelerator. AIP Conference Proceedings, 1992, , .	0.3	1
165	Fabrication of biologically based microstructure composites for vacuum field emission. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 158, 1-6.	2.6	25
166	Evolution of a finite pulse of radiation in a high-power free-electron laser. IEEE Journal of Quantum Electronics, 1991, 27, 2529-2538.	1.0	2
167	The Source Dependent Expansion Method and Radiation Focusing in the Free Electron Laser. , 1991, , 272-290.		0
168	Effect of tapering on optical guiding and sideband growth in a finite-pulse free-electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 296, 442-447.	0.7	3
169	Synchrotron-betatron parametric instability in free-electron lasers. Physical Review A, 1990, 41, 2877-2879.	1.0	2
170	Comment on "Cascade Focusing in the Beat-Wave Accelerator". Physical Review Letters, 1990, 65, 1961-1961.	2.9	16
171	Efficiency enhancement and optical guiding in a tapered high-power finite-pulse free-electron laser. Physical Review Letters, 1990, 64, 180-183.	2.9	17
172	Nonlinear interaction of intense laser pulses in plasmas. Physical Review A, 1990, 41, 4463-4469.	1.0	300
173	Nonlinear wakefield generation and relativistic focusing of intense laser pulses in plasmas. Physics of Fluids B, 1990, 2, 1390-1394.	1.7	94
174	Frequency shifts induced in laser pulses by plasma waves. Physical Review A, 1990, 42, 3526-3531.	1.0	92
175	Nonlinear theory of intense laser-plasma interactions. Physical Review Letters, 1990, 64, 2011-2014.	2.9	460
176	Simulation of short intense laser pulse propagation in the laser wakefield accelerator. AIP Conference Proceedings, 1989, , .	0.3	3
177	Radiofrequency linac-driven free-electron laser configurations. Journal of Applied Physics, 1989, 66, 1549-1555.	1.1	6
178	Optical guiding and beat wave phase velocity control in the plasma beat wave accelerator. AIP Conference Proceedings, 1989, , .	0.3	4
179	Laser wakefield acceleration and relativistic optical guiding. AIP Conference Proceedings, 1989, , .	0.3	4
180	Guided radiation beams in free electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 272, 536-542.	0.7	7

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181	Comparison of sideband growth in tapered and untapered free electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 272, 392-396.	0.7	2
182	Reflection matrix for optical resonators in FEL oscillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 272, 543-550.	0.7	9
183	Laser wakefield acceleration and relativistic optical guiding. Applied Physics Letters, 1988, 53, 2146-2148.	1.5	470
184	Development of sidebands in tapered and untapered free-electron lasers. Physical Review A, 1988, 38, 197-203.	1.0	33
185	Relativistic focusing and beat wave phase velocity control in the plasma beat wave accelerator. Applied Physics Letters, 1988, 53, 1266-1268.	1.5	70
186	Radiation focusing and guiding with application to the free electron laser. Physical Review Letters, 1987, 59, 202-205.	2.9	113
187	Optical gain, phase shift, and profile in free-electron lasers. Physical Review A, 1987, 36, 1739-1746.	1.0	34
188	Analysis of radiation focusing and steering in the free-electron laser by use of a source-dependent expansion technique. Physical Review A, 1987, 36, 2773-2781.	1.0	136
189	Sideband instability in a free electron laser. , 1987, , .		0
190	Radiation focusing and guiding in the free electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 259, 136-142.	0.7	2
191	Exact solutions of a nonlinear boundary value problem: The vortices of the two-dimensional sinh-Poisson equation. Physica D: Nonlinear Phenomena, 1987, 26, 37-66.	1.3	69
192	Turbulent relaxation processes in magnetohydrodynamics. Physics of Fluids, 1986, 29, 3261.	1.4	176
193	Synchrotron-betatron Parametric Instability In Free-electron Lasers. , 0, , .		0
194	Laser wakefield acceleration. , 0, , .		5
195	Effect Of Tapering On Optical Guiding And Sideband Growth In A Finite-pulse Free-electron Laser. , 0, , .		0
196	Self-modulated-laser wakefield acceleration. , 0, , .		2
197	Femtosecond electron bunches from colliding laser pulses in plasmas. , 0, , .		0
198	Channeling and time evolution of laser wakes and electron acceleration in a self-modulated laser wakefield accelerator experiment. , 0, , .		0

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199	Laser driven electron acceleration to GeV energies in plasma channels. , 0, , .		0
200	Simulation of density channel guiding in capillary discharge experiments and laser wakefield accelerators. , 0, , .		1
201	Relativistic focusing and ponderomotive self-channeling of intense laser beams. , 0, , .		0
202	Athermal annealing of ion-implanted silicon. , 0, , .		1
203	Plasma-based laser pulse control techniques for laser wakefield accelerators. , 0, , .		0
204	Capillary optical guiding experiments for the NRL laser wakefield accelerator. , 0, , .		0
205	Generation of tunable, monochromatic X-rays in the Laser Synchrotron Source experiment. , 0, , .		3
206	Focusing of laser pulses using a plasma channel lens. , 0, , .		0
207	Particle-in-cell simulations of optical injectors for plasma accelerators. , 0, , .		2
208	Simulation of accelerated electron spectra in laser wakefield accelerators. , 0, , .		3
209	Proposal for a pre-bunched laser wakefield acceleration experiment at the BNL DUV-fel facility. , 0, , .		0
210	Guided electric discharges induced by femtosecond laser filaments. , 0, , .		0
211	Defining optical injector parameters for optimal acceleration bunches. , 0, , .		0
212	Nonlinear laser synchrotron source experiment for tunable, monochromatic X-rays. , 0, , .		0
213	Remote atmospheric breakdown using intense femtosecond laser pulses. , 0, , .		0
214	Trapping and acceleration of nonideal injected electron bunches in laser wakefield accelerators. , 0, , .		0
215	Terahertz Radiation from Optical Rectification of a Modulated Laser Pulse. , 0, , .		0
216	First Demonstration of a Staged Optical Injection and Laser Wakefield Acceleration. , 0, , .		0