

Donald P Umstadter

List of Publications by Year in descending order

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211
papers

8,151
citations

66343

42
h-index

46799

89
g-index

214
all docs

214
docs citations

214
times ranked

2879
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient Relativistic Plasma Grating to Tailor High-Power Laser Fields, Wakefield Plasma Waves, and Electron Injection. <i>Physical Review Letters</i> , 2022, 128, 164801.	7.8	6
2	U.S. Advanced and novel accelerator beam test facilities. <i>Journal of Instrumentation</i> , 2022, 17, T05009.	1.2	1
3	Transverse oscillating bubble enhanced laser-driven betatron X-ray radiation generation. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
4	Measurements of Nonlinear Thomson Scattering Radiation Patterns from Elliptical Light with Polarization Resolution. , 2021, , .		0
5	Traveling-wave Thomson scattering for electron-beam spectroscopy. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	1
6	Experimental observation of polarization-resolved nonlinear Thomson scattering of elliptically polarized light. <i>Physical Review A</i> , 2021, 104, .	2.5	3
7	High energy X-ray Compton spectroscopy via iterative reconstruction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 951, 163032.	1.6	5
8	Generation of ultrafast electron bunch trains via trapping into multiple periods of plasma wakefields. <i>Physics of Plasmas</i> , 2020, 27, 033105.	1.9	4
9	Attosecond electron bunch measurement with coherent nonlinear Thomson scattering. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	9
10	Control over high peak-power laser light and laser-driven X-rays. <i>Optics Communications</i> , 2018, 412, 141-145.	2.1	5
11	Extremely High-Order Multiphoton Thomson Scattering: Synchrotron Hard X-Rays from Ultra-Intense Laser Light. , 2018, , .		0
12	Electron Trapping from Interactions between Laser-Driven Relativistic Plasma Waves. <i>Physical Review Letters</i> , 2018, 121, 104801.	7.8	21
13	Single-shot structural analysis by high-energy X-ray diffraction using an ultrashort all-optical source. <i>Scientific Reports</i> , 2017, 7, 16603.	3.3	4
14	High-order multiphoton Thomson scattering. <i>Nature Photonics</i> , 2017, 11, 514-520.	31.4	169
15	High-resolution radiography of thick steel objects using an all-laser-driven MeV-energy x-ray source. , 2016, , .		0
16	Intrinsic beam emittance of laser-accelerated electrons measured by x-ray spectroscopic imaging. <i>Scientific Reports</i> , 2016, 6, 24622.	3.3	30
17	Control and optimization of a staged laser-wakefield accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 830, 375-380.	1.6	20
18	Shielded radiography with a laser-driven MeV-energy X-ray source. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 366, 217-223.	1.4	16

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19	A System to Control the Energy of a High-power Laser System with Application to X-ray Generation at Ultra-high Intensity. , 2016, , .		0
20	A High-energy Attenuation System and the Application to X-ray Generation at Ultra-high Intensity. , 2016, , .		0
21	Measuring ultralow emittance of laser-driven electron beams with spectroscopic imaging of inverse-Compton-scattered x-rays. , 2016, , .		0
22	All-laser-driven Compton x-ray light source. , 2016, , .		0
23	Independent control of laser wakefield-accelerated electron-beam parameters. , 2015, , .		0
24	Photonuclear and radiography applications of narrowband, multi-MeV all-optical Thomson x-ray source. , 2015, , .		0
25	Compact source of narrowband and tunable X-rays for radiography. Nuclear Instruments & Methods in Physics Research B, 2015, 350, 106-111.	1.4	26
26	Tunable monoenergetic electron beams from independently controllable laser-wakefield acceleration and injection. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	44
27	Narrow bandwidth and tunable hard x-rays from an all-laser-driven Thomson light source. , 2015, , .		0
28	All-laser-driven Thomson X-ray sources. Contemporary Physics, 2015, 56, 417-431.	1.8	22
29	Tomographic imaging of nonsymmetric multicomponent tailored supersonic flows from structured gas nozzles. Applied Optics, 2015, 54, 3491.	2.1	9
30	Hard x-rays from a tabletop all-laser-driven synchrotron light source. , 2015, , .		2
31	Extreme Light: Driver for a Table-Top Electron Accelerator and Tunable Narrowband Hard X-Ray Light Source. , 2014, , .		0
32	Laser-wakefield electron accelerator with independent beam-parameter control. , 2014, , .		0
33	Tunable Monoenergetic Electron Beams from Staged Ionization Assisted Laser Wakefield Accelerator. , 2014, , .		0
34	Adaptive Spectral-phase Control for Laser Wakefield Electron Acceleration. , 2014, , .		1
35	Wavefront-correction for nearly diffraction-limited focusing of dual-color laser beams to high intensities. Optics Express, 2014, 22, 26947.	3.4	8
36	Generation of 9â€‰MeV $\hat{3}$ -rays by all-laser-driven Compton scattering with second-harmonic laser light. Optics Letters, 2014, 39, 4132.	3.3	59

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37	Quasi-monoenergetic and tunable X-rays from a laser-driven Compton light source. Nature Photonics, 2014, 8, 28-31.	31.4	290
38	Adaptive-feedback spectral-phase control for interactions with transform-limited ultrashort high-power laser pulses. Optics Letters, 2014, 39, 80.	3.3	25
39	Quasi Monoenergetic and Tunable X-rays by Laser Compton Scattering from Laser Wakefield e-beam. , 2014, , .		1
40	Radiation Reaction of Electrons Scattered by Intense Laser Light. , 2014, , .		0
41	Spectral bandwidth reduction of Thomson scattered light by pulse chirping. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	66
42	Selective activation with all-laser-driven Thomson γ-rays. , 2013, , .		1
43	MeV-Energy X Rays from Inverse Compton Scattering with Laser-Wakefield Accelerated Electrons. Physical Review Letters, 2013, 110, 155003.	7.8	231
44	Stable, tunable, quasimonoenergetic electron beams produced in a laser wakefield near the threshold for self-injection. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	48
45	Improved particle statistics for laser-plasma self-injection simulations. , 2013, , .		0
46	Repetitive petawatt-class laser with near-diffraction-limited focal spot and transform-limited pulse duration. Proceedings of SPIE, 2013, , .	0.8	16
47	Extreme X Rays Probe Extreme Matter. Physics Magazine, 2012, 5, .	0.1	3
48	Generation of tunable, 100â€“800 MeV quasi-monoenergetic electron beams from a laser-wakefield accelerator in the blowout regime. Physics of Plasmas, 2012, 19, 056703.	1.9	40
49	Computationally efficient methods for modelling laser wakefield acceleration in the blowout regime. Journal of Plasma Physics, 2012, 78, 469-482.	2.1	25
50	Characterization of wakefield accelerated electron beams by a spatial cross-correlation technique. , 2012, , .		0
51	Bright Î³-Ray Beam Source Based on Laser Wakefield Accelerator and Laser Undulator. , 2012, , .		0
52	Glass-guiding benefits. Nature Photonics, 2011, 5, 576-577.	31.4	8
53	Electron self-injection into an evolving plasma bubble: Quasi-monoenergetic laser-plasma acceleration in the blowout regime. Physics of Plasmas, 2011, 18, .	1.9	88
54	Background-free, quasi-monoenergetic electron beams from a self-injected laser wakefield accelerator. , 2011, , .		0

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55	Submillimeter-resolution radiography of shielded structures with laser-accelerated electron beams. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010, 13, .	1.8	28
56	Development of a Source of Quasi-Monochromatic MeV Energy Photons. , 2009, , .		1
57	Application of a laser-wakefield driven monochromatic photon source to nuclear resonance fluorescence. , 2009, , .		0
58	Monte carlo characterization of a pulsed laser-wakefield driven monochromatic X-ray source. , 2009, , .		0
59	High-energy Laser-accelerated Electron Beams for Long-range Interrogation. , 2009, , .		3
60	Measurement of damage threshold for metallic gratings under intense laser pulse irradiation. , 2009, , .		0
61	High-brightness, Stable Electron Beams from a Laser Wakefield Accelerator Operating in the Matched Regime. , 2009, , .		0
62	Laser-plasma generated electron beams for radiographic applications. , 2009, , .		0
63	All-laser-driven, MeV-energy X-ray source for detection of SNM. , 2008, , .		1
64	Measurement of Damage Threshold for Metallic Gratings under Intense Laser Pulse Irradiation. , 2008, , .		0
65	Ultra-intense laser-matter interactions with a 150-terawatt power laser. , 2008, , .		0
66	Exact analytical solution for the vector electromagnetic field of Gaussian, flattened Gaussian, and annular Gaussian laser modes. <i>Optics Letters</i> , 2006, 31, 1447.	3.3	23
67	Analytical solutions for the electromagnetic fields of tightly focused laser beams of arbitrary pulse length. <i>Optics Letters</i> , 2006, 31, 2589.	3.3	17
68	Analytical solutions for the electromagnetic fields of flattened and annular Gaussian laser modes I Small F-number laser focusing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 2157.	2.1	5
69	Analytical solutions for the electromagnetic fields of flattened and annular Gaussian laser modes II Large F-number laser focusing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 2166.	2.1	4
70	Analytical solutions for the electromagnetic fields of flattened and annular Gaussian laser modes III Arbitrary length pulses and spot sizes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 2295.	2.1	4
71	Generation of ultrashort pulses of electrons, X-rays and optical pulses by relativistically strong light. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
72	Observation of relativistic cross-phase modulation in high-intensity laser-plasma interactions. <i>Physical Review E</i> , 2006, 74, 046406.	2.1	5

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73	A Complete Analytical Description of Few Cycle, Focused Laser Pulses. , 2006, , .		0
74	Einstein's impact on optics at the frontier. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 121-132.	2.1	3
75	Relativistic Nonlinear Optics. Advances in Atomic, Molecular and Optical Physics, 2005, 52, 331-389.	2.3	6
76	Thomson scattering and ponderomotive intermodulation within standing laser beat waves in plasma. Physical Review E, 2005, 72, 026501.	2.1	8
77	Optical Deflection and Temporal Characterization of an Ultrafast Laser-Produced Electron Beam. Physical Review Letters, 2005, 95, 035004.	7.8	24
78	Laser based synchrotron radiation. Physics of Plasmas, 2005, 12, 023101.	1.9	76
79	Exact Field Solution for Diffraction Limited Laser Pulses. , 2005, , .		0
80	Nonlinear Thomson scattering in relativistic laser plasma interaction. , 2004, , ITul39.		0
81	Mechanism and Control of High-Intensity-Laser-Driven Proton Acceleration. AIP Conference Proceedings, 2004, , .	0.4	14
82	Simulation of ultrashort electron pulse generation from optical injection into wake-field plasma waves. Physical Review E, 2004, 70, 056410.	2.1	17
83	Evidence of Ionization Blue Shift Seeding of Forward Raman Scattering. AIP Conference Proceedings, 2004, , .	0.4	1
84	High-energy ion generation by short laser pulses. Plasma Physics Reports, 2004, 30, 473-495.	0.9	57
85	Production of a keV X-Ray Beam from Synchrotron Radiation in Relativistic Laser-Plasma Interaction. Physical Review Letters, 2004, 93, 135005.	7.8	557
86	Recent advances in relativistic nonlinear optics. , 2004, , .		0
87	Plasma density gratings induced by intersecting laser pulses in underdense plasmas. Applied Physics B: Lasers and Optics, 2003, 77, 673-680.	2.2	90
88	Relativistic laser-âplasma interactions. Journal Physics D: Applied Physics, 2003, 36, R151-R165.	2.8	284
89	Generation of mega-electron-volt electron beams by an ultrafast intense laser pulse. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 132.	2.1	5
90	High-harmonic generation in plasmas from relativistic laser-electron scattering. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 182.	2.1	21

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91	Nonlinear Thomson scattering: A tutorial. <i>Physics of Plasmas</i> , 2003, 10, 2155-2162.	1.9	130
92	High energy ion generation. , 2003, , .		0
93	An optical trap for relativistic plasma. <i>Physics of Plasmas</i> , 2003, 10, 2093-2099.	1.9	42
94	X-Ray Radiation from Nonlinear Thomson Scattering of an Intense Femtosecond Laser on Relativistic Electrons in a Helium Plasma. <i>Physical Review Letters</i> , 2003, 91, 195001.	7.8	105
95	Backscattering of an Intense Laser Beam by an Electron. <i>Physical Review Letters</i> , 2003, 90, 055002.	7.8	42
96	Laser-Energy Transfer and Enhancement of Plasma Waves and Electron Beams by Interfering High-Intensity Laser Pulses. <i>Physical Review Letters</i> , 2003, 91, 225001.	7.8	24
97	A LASER-DRIVEN ACCELERATOR AND THOMSON X-RAY SOURCE. , 2003, , .		0
98	Phase dependence of Thomson scattering in an ultraintense laser field. <i>Physics of Plasmas</i> , 2002, 9, 4325-4329.	1.9	31
99	High-harmonic generation in plasmas by relativistic Thomson scattering. <i>Journal of Modern Optics</i> , 2002, 49, 2599-2614.	1.3	3
100	High harmonic generation in relativistic laser-plasma interaction. <i>Physics of Plasmas</i> , 2002, 9, 2393-2398.	1.9	60
101	A Proof-of-Principle Experiment of Optical Injection of Electrons in Laser-Driven Plasma Waves. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	1
102	Developments in relativistic nonlinear optics. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
103	Study of Energetic Ion Generation from High-Intensity-Laser Dense-Plasma Interactions. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
104	High-energy ion generation in interaction. of short laser pulse with high-density plasma. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 207-215.	2.2	140
105	Extreme Light. <i>Scientific American</i> , 2002, 286, 80-86.	1.0	27
106	High-harmonic generation by relativistic Thomson scattering. , 2002, , .		0
107	Laser Accelerated Plasma Propulsion System (LAPPS). , 2001, , .		0
108	Review of physics and applications of relativistic plasmas driven by ultra-intense lasers. <i>Physics of Plasmas</i> , 2001, 8, 1774-1785.	1.9	304

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109	Laser acceleration of protons from thin film targets. AIP Conference Proceedings, 2001, , .	0.4	0
110	Status of the LILAC experiment. AIP Conference Proceedings, 2001, , .	0.4	0
111	<title>Near-10-MeV ion acceleration in the forward direction and isotope production with a high-intensity laser</title>. , 2001, , .		0
112	Forward ion acceleration and nuclear reactions on a tabletop driven by a high-intensity laser. , 2001, 4352, 120.		0
113	Fast ignitor concept with light ions. Plasma Physics Reports, 2001, 27, 1017-1020.	0.9	142
114	Coherent control of stimulated Raman scattering using chirped laser pulses. Physics of Plasmas, 2001, 8, 3531-3534.	1.9	41
115	Relativistic nonlinear optics of ultra-intense light. , 2001, , .		0
116	Laser-triggered ion acceleration and table top isotope production. Applied Physics Letters, 2001, 78, 595-597.	3.3	187
117	Dense and Relativistic Plasmas Produced by Compact High-Intensity Lasers. Astrophysical Journal, Supplement Series, 2000, 127, 513-518.	7.7	6
118	X-ray radiation from matter in extreme conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 367-385.	2.3	26
119	X-ray radiation from ions with K-shell vacancies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 477-499.	2.3	37
120	Laser light splits atom. Nature, 2000, 404, 239-239.	27.8	20
121	Relativistic Nonlinear Optics of Free Electrons in Laser-Driven Plasmas. , 2000, , WE2.		0
122	High contrast 150-terawatt laser for high field laser-plasma interaction studies. , 2000, , .		1
123	Pulse radiolysis of liquid water using picosecond electron pulses produced by a table-top terawatt laser system. Review of Scientific Instruments, 2000, 71, 2305-2308.	1.3	24
124	Electron Acceleration and the Propagation of Ultrashort High-Intensity Laser Pulses in Plasmas. Physical Review Letters, 2000, 84, 5324-5327.	7.8	64
125	Observation of Phase-Matched Relativistic Harmonic Generation. Physical Review Letters, 2000, 84, 5528-5531.	7.8	86
126	MeV proton beam driven by a high-intensity laser. , 2000, , .		0

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127	Excitation and damping of a self-modulated laser wakefield. <i>Physics of Plasmas</i> , 2000, 7, 403-413.	1.9	30
128	Forward Ion Acceleration in Thin Films Driven by a High-Intensity Laser. <i>Physical Review Letters</i> , 2000, 84, 4108-4111.	7.8	677
129	Experimental observation of nonlinear Thomson scattering. , 2000, , 115-125.		2
130	Electron injection by dephasing electrons with laser fields. , 1999, , .		0
131	High-Resolved X-ray Spectra of Hollow Atoms in a Femtosecond Laser-Produced Solid Plasma. <i>Physica Scripta</i> , 1999, T80, 536.	2.5	37
132	Detailed dynamics of electron beams self-trapped and accelerated in a self-modulated laser wakefield. <i>Physics of Plasmas</i> , 1999, 6, 4739-4749.	1.9	48
133	Electron beam characteristics of a laser-driven plasma wakefield accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 438, 265-276.	1.6	3
134	Self-focusing, channel formation, and high-energy ion generation in interaction of an intense short laser pulse with a He jet. <i>Physical Review E</i> , 1999, 59, 7042-7054.	2.1	183
135	Generation of 10-W average-power, 40-TW peak-power, 24-fs pulses from a Ti:sapphire amplifier system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1790.	2.1	31
136	Cold relativistic wavebreaking threshold of two-dimensional plasma waves. , 1999, , .		0
137	Experimental observation of relativistic nonlinear Thomson scattering. <i>Nature</i> , 1998, 396, 653-655.	27.8	247
138	Temporal contrast in Ti:sapphire lasers, characterization and control. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998, 4, 449-458.	2.9	75
139	Evolution of a Plasma Waveguide Created during Relativistic-Ponderomotive Self-Channeling of an Intense Laser Pulse. <i>Physical Review Letters</i> , 1998, 80, 2610-2613.	7.8	117
140	Nonlinear optics in relativistic plasmas. <i>Optics Express</i> , 1998, 2, 282.	3.4	6
141	Pressure Ionization and Line Merging in Strongly Coupled Plasmas Produced by 100-fs Laser Pulses. <i>Physical Review Letters</i> , 1998, 80, 4442-4445.	7.8	136
142	Nonlinear optics above the power threshold for relativistic self-focusing. , 1998, , .		0
143	Laser-plasma harmonics with high-contrast pulses and designed prepulses. , 1998, , .		1
144	Nonlinear optics in relativistic plasmas. , 1998, , .		0

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145	Relativistically Self-Guided Laser-Wakefield Acceleration. , 1998, , 171-178.		1
146	Generation of Ultrashort Electron Bunches Using Table-Top Laser-Plasma-Based Electron Accelerators. Springer Series in Chemical Physics, 1998, , 418-420.	0.2	0
147	Pressure Ionization and Density Diagnostics in Subpicosecond Laser-Produced Plasmas. , 1998, , 135-140.		0
148	Experimental study of continuum lowering. , 1997, 3157, 93.		2
149	Application of a picosecond soft x-ray source to time-resolved plasma dynamics. Applied Physics Letters, 1997, 70, 312-314.	3.3	65
150	Electron Acceleration by a Laser Wakefield in a Relativistically Self-Guided Channel. Physical Review Letters, 1997, 78, 3125-3128.	7.8	254
151	Nonlinear Optics With Relativistic Electrons [Guest Editorial]. IEEE Journal of Quantum Electronics, 1997, 33, 1877-1878.	1.9	28
152	Laser acceleration of electrons: Zero to c in less than ten microns. AIP Conference Proceedings, 1997, , .	0.4	0
153	Temporal characterization of a self-modulated laser wakefield. , 1997, , .		0
154	Electron acceleration by self-modulated laser wakefield in a relativistically self-guided channel. , 1997, , .		0
155	Ultrashort-pulse relativistic electron gun/accelerator. , 1997, , .		2
156	Observation of laser satellites in a plasma produced by a femtosecond laser pulse. JETP Letters, 1997, 66, 480-486.	1.4	16
157	Observation of the plasma channel dynamics and Coulomb explosion in the interaction of a high-intensity laser pulse with a He gas jet. JETP Letters, 1997, 66, 828-834.	1.4	30
158	Picosecond soft-x-ray source from subpicosecond laser-produced plasmas. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 125.	2.1	29
159	Enhancement of short-pulse recombination-pumped gain by soft-x-ray photoionization of the ground state. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 443.	2.1	0
160	Nonlinear Optics in Relativistic Plasmas and Laser Wake Field Acceleration of Electrons. Science, 1996, 273, 472-475.	12.6	360
161	Laser Injection of Ultrashort Electron Pulses into Wakefield Plasma Waves. Physical Review Letters, 1996, 76, 2073-2076.	7.8	392
162	Electron acceleration by nonlinear plasma waves resonantly driven with optimized high-intensity laser pulse trains. AIP Conference Proceedings, 1996, , .	0.4	0

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163	Not so Fast, There!. Science News, 1996, 149, 211.	0.1	0
164	Signal averaging x-ray streak camera with picosecond jitter. Review of Scientific Instruments, 1996, 67, 697-699.	1.3	34
165	Temporal Characterization of a Self-Modulated Laser Wakefield. Physical Review Letters, 1996, 77, 5381-5384.	7.8	95
166	Nonlinear Optics in the Relativistic Regime. Springer Series in Chemical Physics, 1996, , 98-99.	0.2	0
167	Picosecond Time-Resolved Pump-Probe XUV Absorption L-Edge Spectroscopy. Springer Series in Chemical Physics, 1996, , 109-110.	0.2	0
168	Picosecond x-rays from subpicosecond-laser-produced hot-dense matter. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 401-411.	2.3	8
169	Resonantly driven laser-plasma electron accelerators. AIP Conference Proceedings, 1995, , .	0.4	0
170	Bright picosecond x-rays from intense sub-picosecond laser-plasma interactions. AIP Conference Proceedings, 1995, , .	0.4	1
171	Bright ultrashort X-rays from intense subpicosecond laser-plasma interactions. , 1995, , .		0
172	Control of Bright Picosecond X-Ray Emission from Intense Subpicosecond Laser-Plasma Interactions. Physical Review Letters, 1995, 75, 2324-2327.	7.8	63
173	Resonantly laser-driven plasma waves for electron acceleration. Physical Review E, 1995, 51, 3484-3497.	2.1	35
174	Nonlinear temporal diffraction and frequency shifts resulting from pulse shaping in chirped-pulse amplification systems. Optics Letters, 1995, 20, 1163.	3.3	28
175	Ultrashort Ultraviolet Free-Electron Lasers. Journal of X-Ray Science and Technology, 1994, 4, 263-274.	1.0	0
176	Resonant laser-plasma electron acceleration. AIP Conference Proceedings, 1994, , .	0.4	0
177	Nonlinear Plasma Waves Resonantly Driven by Optimized Laser Pulse Trains. Physical Review Letters, 1994, 72, 1224-1227.	7.8	107
178	Femtosecond free-electron laser by chirped pulse amplification. Physical Review E, 1994, 49, 4480-4486.	2.1	27
179	Ultrashort ultraviolet free-electron lasers. Journal of X-Ray Science and Technology, 1994, 4, 263-274.	1.0	1
180	Nonlinear Plasma Waves Resonantly Driven by Optimized Laser-Pulse Trains. Springer Series in Chemical Physics, 1994, , 273-274.	0.2	0

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181	Nonlinear analysis of relativistic harmonic generation by intense lasers in plasmas. IEEE Transactions on Plasma Science, 1993, 21, 95-104.	1.3	140
182	Harmonic generation by an intense laser pulse in neutral and ionized gases. IEEE Transactions on Plasma Science, 1993, 21, 90-94.	1.3	73
183	<title>Femtosecond dynamics of short-scale-length laser plasmas</title>. , 1993, , .		1
184	<title>Intense ultrashort-pulse laser-solid interactions for soft x-ray generation</title>. , 1993, , .		1
185	Ponderomotive Steepening in Short-Scale-Length Laser-Plasmas. Springer Series in Chemical Physics, 1993, , 293-295.	0.2	0
186	Plasma Physics with Ultra-Short and Ultra-Intense Laser Pulses. Springer Series in Chemical Physics, 1993, , 267-271.	0.2	0
187	Development and applications of compact high-intensity lasers. Physics of Fluids B, 1992, 4, 2315-2325.	1.7	186
188	Competition between ponderomotive and thermal forces in short-scale-length laser plasmas. Physical Review Letters, 1992, 69, 1935-1938.	7.8	84
189	The coupling of stimulated Raman and Brillouin scattering in a plasma. Physics of Fluids B, 1989, 1, 183-187.	1.7	20
190	Observation of steepening in electron plasma waves driven by stimulated Raman backscattering. Physical Review Letters, 1987, 59, 292-295.	7.8	38
191	Electrostatic Mode Coupling of Beat-Excited Electron Plasma Waves. IEEE Transactions on Plasma Science, 1987, 15, 107-130.	1.3	22
192	Saturation of Beat-Excited Plasma Waves by Electrostatic Mode Coupling. Physical Review Letters, 1986, 56, 2629-2632.	7.8	69
193	Plasma accelerators. AIP Conference Proceedings, 1985, , .	0.4	12
194	Clayton et al. Respond. Physical Review Letters, 1985, 55, 1652-1652.	7.8	15
195	Experimental Study of the Plasma Beat Wave Accelerator. IEEE Transactions on Nuclear Science, 1985, 32, 3551-3553.	2.0	3
196	Relativistic Plasma-Wave Excitation by Collinear Optical Mixing. Physical Review Letters, 1985, 54, 2343-2346.	7.8	192
197	A unidirectional, pulsed far-infrared ring laser. Applied Physics Letters, 1981, 38, 851-853.	3.3	8
198	Terawatt lasers: probing unique material properties with novel diagnostic source. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Laser-driven plasma-cathode electron injector. , 0, , .		0
200	High-intensity lasers: the dawn of relativistic nonlinear optics. , 0, , .		0
201	Electron cavitation and generation of MeV ions produced by relativistically self-guided laser pulse in He gas jet. , 0, , .		0
202	Characteristics of electron acceleration in a self-modulated laser wakefield. , 0, , .		1
203	Pondermotive acceleration of ions by relativistically self-focused high-intensity short pulse laser. , 0, , .		0
204	Relativistic nonlinear optics of free electrons in laser-driven plasmas. , 0, , .		0
205	Multi-MeV ion beams from terawatt laser thin-foil interactions. , 0, , .		1
206	Low divergence laser-plasma-based beams. , 0, , .		0
207	High harmonic generation in plasmas by relativistic Thomson scattering. , 0, , .		0
208	Towards realizing optical injection of electrons in resonantly excited plasma Wakefields. , 0, , .		0
209	Vacuum scattering technique for wakefield electron beam diagnostic and conditioning measurements. , 0, , .		0
210	Observation of Relativistic Cross-Phase Modulation in High Intensity Laser-Plasma Interactions. , 0, , .		1
211	Interactions of ultrashort, ultrahigh intensity laser pulses with underdense plasmas. , 0, , .		0