

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
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214
all docs

214
docs citations

214
times ranked

2879
citing authors

#	ARTICLE	IF	CITATIONS
1	Forward Ion Acceleration in Thin Films Driven by a High-Intensity Laser. <i>Physical Review Letters</i> , 2000, 84, 4108-4111.	7.8	677
2	Production of a keV X-Ray Beam from Synchrotron Radiation in Relativistic Laser-Plasma Interaction. <i>Physical Review Letters</i> , 2004, 93, 135005.	7.8	557
3	Laser Injection of Ultrashort Electron Pulses into Wakefield Plasma Waves. <i>Physical Review Letters</i> , 1996, 76, 2073-2076.	7.8	392
4	Nonlinear Optics in Relativistic Plasmas and Laser Wake Field Acceleration of Electrons. <i>Science</i> , 1996, 273, 472-475.	12.6	360
5	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
6	Quasi-monoenergetic and tunable X-rays from a laser-driven Compton light source. <i>Nature Photonics</i> , 2014, 8, 28-31.	31.4	290
7	Relativistic laser-plasma interactions. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R151-R165.	2.8	284
8	Electron Acceleration by a Laser Wakefield in a Relativistically Self-Guided Channel. <i>Physical Review Letters</i> , 1997, 78, 3125-3128.	7.8	254
9	Experimental observation of relativistic nonlinear Thomson scattering. <i>Nature</i> , 1998, 396, 653-655.	27.8	247
10	MeV-Energy X Rays from Inverse Compton Scattering with Laser-Wakefield Accelerated Electrons. <i>Physical Review Letters</i> , 2013, 110, 155003.	7.8	231
11	Relativistic Plasma-Wave Excitation by Collinear Optical Mixing. <i>Physical Review Letters</i> , 1985, 54, 2343-2346.	7.8	192
12	Laser-triggered ion acceleration and table top isotope production. <i>Applied Physics Letters</i> , 2001, 78, 595-597.	3.3	187
13	Development and applications of compact high-intensity lasers. <i>Physics of Fluids B</i> , 1992, 4, 2315-2325.	1.7	186
14	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
15	High-order multiphoton Thomson scattering. <i>Nature Photonics</i> , 2017, 11, 514-520.	31.4	169
16	Fast ignitor concept with light ions. <i>Plasma Physics Reports</i> , 2001, 27, 1017-1020.	0.9	142
17	Nonlinear analysis of relativistic harmonic generation by intense lasers in plasmas. <i>IEEE Transactions on Plasma Science</i> , 1993, 21, 95-104.	1.3	140
18	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

#	ARTICLE	IF	CITATIONS
19	Pressure Ionization and Line Merging in Strongly Coupled Plasmas Produced by 100-fs Laser Pulses. Physical Review Letters, 1998, 80, 4442-4445.	7.8	136
20	Nonlinear Thomson scattering: A tutorial. Physics of Plasmas, 2003, 10, 2155-2162.	1.9	130
21	Evolution of a Plasma Waveguide Created during Relativistic-Ponderomotive Self-Channeling of an Intense Laser Pulse. Physical Review Letters, 1998, 80, 2610-2613.	7.8	117
22	Nonlinear Plasma Waves Resonantly Driven by Optimized Laser Pulse Trains. Physical Review Letters, 1994, 72, 1224-1227.	7.8	107
23	X-Ray Radiation from Nonlinear Thomson Scattering of an Intense Femtosecond Laser on Relativistic Electrons in a Helium Plasma. Physical Review Letters, 2003, 91, 195001.	7.8	105
24	Temporal Characterization of a Self-Modulated Laser Wakefield. Physical Review Letters, 1996, 77, 5381-5384.	7.8	95
25	Plasma density gratings induced by intersecting laser pulses in underdense plasmas. Applied Physics B: Lasers and Optics, 2003, 77, 673-680.	2.2	90
26	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
27	Observation of Phase-Matched Relativistic Harmonic Generation. Physical Review Letters, 2000, 84, 5528-5531.	7.8	86
28	Competition between ponderomotive and thermal forces in short-scale-length laser plasmas. Physical Review Letters, 1992, 69, 1935-1938.	7.8	84
29	Laser based synchrotron radiation. Physics of Plasmas, 2005, 12, 023101.	1.9	76
30	Temporal contrast in Ti:sapphire lasers, characterization and control. IEEE Journal of Selected Topics in Quantum Electronics, 1998, 4, 449-458.	2.9	75
31	Harmonic generation by an intense laser pulse in neutral and ionized gases. IEEE Transactions on Plasma Science, 1993, 21, 90-94.	1.3	73
32	Saturation of Beat-Excited Plasma Waves by Electrostatic Mode Coupling. Physical Review Letters, 1986, 56, 2629-2632.	7.8	69
33	Spectral bandwidth reduction of Thomson scattered light by pulse chirping. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	66
34	Application of a picosecond soft x-ray source to time-resolved plasma dynamics. Applied Physics Letters, 1997, 70, 312-314.	3.3	65
35	Electron Acceleration and the Propagation of Ultrashort High-Intensity Laser Pulses in Plasmas. Physical Review Letters, 2000, 84, 5324-5327.	7.8	64
36	Control of Bright Picosecond X-Ray Emission from Intense Subpicosecond Laser-Plasma Interactions. Physical Review Letters, 1995, 75, 2324-2327.	7.8	63

#	ARTICLE	IF	CITATIONS
37	High harmonic generation in relativistic laser-plasma interaction. <i>Physics of Plasmas</i> , 2002, 9, 2393-2398.	1.9	60
38	Generation of 9â€‰%â€‰MeV γ -rays by all-laser-driven Compton scattering with second-harmonic laser light. <i>Optics Letters</i> , 2014, 39, 4132.	3.3	59
39	High-energy ion generation by short laser pulses. <i>Plasma Physics Reports</i> , 2004, 30, 473-495.	0.9	57
40	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
41	Stable, tunable, quasimonoenergetic electron beams produced in a laser wakefield near the threshold for self-injection. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	48
42	Tunable monoenergetic electron beams from independently controllable laser-wakefield acceleration and injection. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	44
43	An optical trap for relativistic plasma. <i>Physics of Plasmas</i> , 2003, 10, 2093-2099.	1.9	42
44	Backscattering of an Intense Laser Beam by an Electron. <i>Physical Review Letters</i> , 2003, 90, 055002.	7.8	42
45	Coherent control of stimulated Raman scattering using chirped laser pulses. <i>Physics of Plasmas</i> , 2001, 8, 3531-3534.	1.9	41
46	Generation of tunable, 100â€‰-800 MeV quasi-monoenergetic electron beams from a laser-wakefield accelerator in the blowout regime. <i>Physics of Plasmas</i> , 2012, 19, 056703.	1.9	40
47	Observation of steepening in electron plasma waves driven by stimulated Raman backscattering. <i>Physical Review Letters</i> , 1987, 59, 292-295.	7.8	38
48	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
49	X-ray radiation from ions with K-shell vacancies. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 65, 477-499.	2.3	37
50	Resonantly laser-driven plasma waves for electron acceleration. <i>Physical Review E</i> , 1995, 51, 3484-3497.	2.1	35
51	Signal averaging x-ray streak camera with picosecond jitter. <i>Review of Scientific Instruments</i> , 1996, 67, 697-699.	1.3	34
52	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
53	Phase dependence of Thomson scattering in an ultraintense laser field. <i>Physics of Plasmas</i> , 2002, 9, 4325-4329.	1.9	31
54	Observation of the plasma channel dynamics and Coulomb explosion in the interaction of a high-intensity laser pulse with a He gas jet. <i>JETP Letters</i> , 1997, 66, 828-834.	1.4	30

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55	Excitation and damping of a self-modulated laser wakefield. <i>Physics of Plasmas</i> , 2000, 7, 403-413.	1.9	30
56	Intrinsic beam emittance of laser-accelerated electrons measured by x-ray spectroscopic imaging. <i>Scientific Reports</i> , 2016, 6, 24622.	3.3	30
57	Picosecond soft-x-ray source from subpicosecond laser-produced plasmas. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 125.	2.1	29
58	Nonlinear temporal diffraction and frequency shifts resulting from pulse shaping in chirped-pulse amplification systems. <i>Optics Letters</i> , 1995, 20, 1163.	3.3	28
59	Nonlinear Optics With Relativistic Electrons [Guest Editorial]. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 1877-1878.	1.9	28
60	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
61	Femtosecond free-electron laser by chirped pulse amplification. <i>Physical Review E</i> , 1994, 49, 4480-4486.	2.1	27
62	Extreme Light. <i>Scientific American</i> , 2002, 286, 80-86.	1.0	27
63	X-ray radiation from matter in extreme conditions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 65, 367-385.	2.3	26
64	Compact source of narrowband and tunable X-rays for radiography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 350, 106-111.	1.4	26
65	Computationally efficient methods for modelling laser wakefield acceleration in the blowout regime. <i>Journal of Plasma Physics</i> , 2012, 78, 469-482.	2.1	25
66	Adaptive-feedback spectral-phase control for interactions with transform-limited ultrashort high-power laser pulses. <i>Optics Letters</i> , 2014, 39, 80.	3.3	25
67	Pulse radiolysis of liquid water using picosecond electron pulses produced by a table-top terawatt laser system. <i>Review of Scientific Instruments</i> , 2000, 71, 2305-2308.	1.3	24
68	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
69	Optical Deflection and Temporal Characterization of an Ultrafast Laser-Produced Electron Beam. <i>Physical Review Letters</i> , 2005, 95, 035004.	7.8	24
70	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
71	Electrostatic Mode Coupling of Beat-Excited Electron Plasma Waves. <i>IEEE Transactions on Plasma Science</i> , 1987, 15, 107-130.	1.3	22
72	All-laser-driven Thomson X-ray sources. <i>Contemporary Physics</i> , 2015, 56, 417-431.	1.8	22

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73	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
74	Electron Trapping from Interactions between Laser-Driven Relativistic Plasma Waves. Physical Review Letters, 2018, 121, 104801.	7.8	21
75	The coupling of stimulated Raman and Brillouin scattering in a plasma. Physics of Fluids B, 1989, 1, 183-187.	1.7	20
76	Laser light splits atom. Nature, 2000, 404, 239-239.	27.8	20
77	Control and optimization of a staged laser-wakefield accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 375-380.	1.6	20
78	Simulation of ultrashort electron pulse generation from optical injection into wake-field plasma waves. Physical Review E, 2004, 70, 056410.	2.1	17
79	Analytical solutions for the electromagnetic fields of tightly focused laser beams of arbitrary pulse length. Optics Letters, 2006, 31, 2589.	3.3	17
80	Observation of laser satellites in a plasma produced by a femtosecond laser pulse. JETP Letters, 1997, 66, 480-486.	1.4	16
81	Repetitive petawatt-class laser with near-diffraction-limited focal spot and transform-limited pulse duration. Proceedings of SPIE, 2013, , .	0.8	16
82	Shielded radiography with a laser-driven MeV-energy X-ray source. Nuclear Instruments & Methods in Physics Research B, 2016, 366, 217-223.	1.4	16
83	Clayton et al. Respond. Physical Review Letters, 1985, 55, 1652-1652.	7.8	15
84	Mechanism and Control of High-Intensity-Laser-Driven Proton Acceleration. AIP Conference Proceedings, 2004, , .	0.4	14
85	Plasma accelerators. AIP Conference Proceedings, 1985, , .	0.4	12
86	Tomographic imaging of nonsymmetric multicomponent tailored supersonic flows from structured gas nozzles. Applied Optics, 2015, 54, 3491.	2.1	9
87	Attosecond electron bunch measurement with coherent nonlinear Thomson scattering. Physical Review Accelerators and Beams, 2020, 23, .	1.6	9
88	A unidirectional, pulsed far-infrared ring laser. Applied Physics Letters, 1981, 38, 851-853.	3.3	8
89	Picosecond x-rays from subpicosecond-laser-produced hot-dense matter. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 401-411.	2.3	8
90	Thomson scattering and ponderomotive intermodulation within standing laser beat waves in plasma. Physical Review E, 2005, 72, 026501.	2.1	8

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91	Glass-guiding benefits. <i>Nature Photonics</i> , 2011, 5, 576-577.	31.4	8
92	Wavefront-correction for nearly diffraction-limited focusing of dual-color laser beams to high intensities. <i>Optics Express</i> , 2014, 22, 26947.	3.4	8
93	Nonlinear optics in relativistic plasmas. <i>Optics Express</i> , 1998, 2, 282.	3.4	6
94	Dense and Relativistic Plasmas Produced by Compact High-Intensity Lasers. <i>Astrophysical Journal, Supplement Series</i> , 2000, 127, 513-518.	7.7	6
95	Relativistic Nonlinear Optics. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2005, 52, 331-389.	2.3	6
96	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
97	Transverse oscillating bubble enhanced laser-driven betatron X-ray radiation generation. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
98	Generation of mega-electron-volt electron beams by an ultrafast intense laser pulse. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 132.	2.1	5
99	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
100	Observation of relativistic cross-phase modulation in high-intensity laser-plasma interactions. <i>Physical Review E</i> , 2006, 74, 046406.	2.1	5
101	Control over high peak-power laser light and laser-driven X-rays. <i>Optics Communications</i> , 2018, 412, 141-145.	2.1	5
102	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
103	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
104	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
105	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
106	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
107	Experimental Study of the Plasma Beat Wave Accelerator. <i>IEEE Transactions on Nuclear Science</i> , 1985, 32, 3551-3553.	2.0	3
108	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

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109	High-harmonic generation in plasmas by relativistic Thomson scattering. Journal of Modern Optics, 2002, 49, 2599-2614.	1.3	3
110	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
111	High-energy Laser-accelerated Electron Beams for Long-range Interrogation. , 2009, , .		3
112	Extreme X Rays Probe Extreme Matter. Physics Magazine, 2012, 5, .	0.1	3
113	Experimental observation of polarization-resolved nonlinear Thomson scattering of elliptically polarized light. Physical Review A, 2021, 104, .	2.5	3
114	Experimental study of continuum lowering. , 1997, 3157, 93.		2
115	Ultrashort-pulse relativistic electron gun/accelerator. , 1997, , .		2
116	Hard x-rays from a tabletop all-laser-driven synchrotron light source. , 2015, , .		2
117	Experimental observation of nonlinear Thomson scattering. , 2000, , 115-125.		2
118	<title>Femtosecond dynamics of short-scale-length laser plasmas</title>. , 1993, , .		1
119	<title>Intense ultrashort-pulse laser-solid interactions for soft x-ray generation</title>. , 1993, , .		1
120	Ultrashort ultraviolet free-electron lasers. Journal of X-Ray Science and Technology, 1994, 4, 263-274.	1.0	1
121	Bright picosecond x-rays from intense sub-picosecond laser-plasma interactions. AIP Conference Proceedings, 1995, , .	0.4	1
122	Laser-plasma harmonics with high-contrast pulses and designed prepulses. , 1998, , .		1
123	Characteristics of electron acceleration in a self-modulated laser wakefield. , 0, , .		1
124	High contrast 150-terawatt laser for high field laser-plasma interaction studies. , 2000, , .		1
125	Multi-MeV ion beams from terawatt laser thin-foil interactions. , 0, , .		1
126	A Proof-of-Principle Experiment of Optical Injection of Electrons in Laser-Driven Plasma Waves. AIP Conference Proceedings, 2002, , .	0.4	1

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127	Evidence of Ionization Blue Shift Seeding of Forward Raman Scattering. AIP Conference Proceedings, 2004, , .	0.4	1
128	Observation of Relativistic Cross-Phase Modulation in High Intensity Laser-Plasma Interactions. , 0, , .		1
129	All-laser-driven, MeV-energy X-ray source for detection of SNM. , 2008, , .		1
130	Development of a Source of Quasi-Monochromatic MeV Energy Photons. , 2009, , .		1
131	Selective activation with all-laser-driven Thomson γ-rays. , 2013, , .		1
132	Adaptive Spectral-phase Control for Laser Wakefield Electron Acceleration. , 2014, , .		1
133	Quasi Monoenergetic and Tunable X-rays by Laser Compton Scattering from Laser Wakefield e-beam. , 2014, , .		1
134	Traveling-wave Thomson scattering for electron-beam spectroscopy. Physical Review Accelerators and Beams, 2021, 24, .	1.6	1
135	Relativistically Self-Guided Laser-Wakefield Acceleration. , 1998, , 171-178.		1
136	U.S.Âadvanced and novel accelerator beam test facilities. Journal of Instrumentation, 2022, 17, T05009.	1.2	1
137	Ultrashort Ultraviolet Free-Electron Lasers. Journal of X-Ray Science and Technology, 1994, 4, 263-274.	1.0	0
138	Resonant laser-plasma electron acceleration. AIP Conference Proceedings, 1994, , .	0.4	0
139	Resonantly driven laser-plasma electron accelerators. AIP Conference Proceedings, 1995, , .	0.4	0
140	Bright ultrashort X-rays from intense subpicosecond laser-plasma interactions. , 1995, , .		0
141	Terawatt lasers: probing unique material properties with novel diagnostic source. , 0, , .		0
142	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
143	Electron acceleration by nonlinear plasma waves resonantly driven with optimized high-intensity laser pulse trains. AIP Conference Proceedings, 1996, , .	0.4	0
144	Not so Fast, There!. Science News, 1996, 149, 211.	0.1	0

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145	Laser acceleration of electrons: Zero to c in less than ten microns. AIP Conference Proceedings, 1997, , .	0.4	0
146	Temporal characterization of a self-modulated laser wakefield. , 1997, , .		0
147	Electron acceleration by self-modulated laser wakefield in a relativistically self-guided channel. , 1997, , .		0
148	Nonlinear optics above the power threshold for relativistic self-focusing. , 1998, , .		0
149	Laser-driven plasma-cathode electron injector. , 0, , .		0
150	Nonlinear optics in relativistic plasmas. , 1998, , .		0
151	Electron injection by dephasing electrons with laser fields. , 1999, , .		0
152	High-intensity lasers: the dawn of relativistic nonlinear optics. , 0, , .		0
153	Electron cavitation and generation of MeV ions produced by relativistically self-guided laser pulse in He gas jet. , 0, , .		0
154	Pondermotive acceleration of ions by relativistically self-focused high-intensity short pulse laser. , 0, , .		0
155	Cold relativistic wavebreaking threshold of two-dimensional plasma waves. , 1999, , .		0
156	Relativistic Nonlinear Optics of Free Electrons in Laser-Driven Plasmas. , 2000, , WE2.		0
157	MeV proton beam driven by a high-intensity laser. , 2000, , .		0
158	Relativistic nonlinear optics of free electrons in laser-driven plasmas. , 0, , .		0
159	Laser Accelerated Plasma Propulsion System (LAPPS). , 2001, , .		0
160	Laser acceleration of protons from thin film targets. AIP Conference Proceedings, 2001, , .	0.4	0
161	Status of the LILAC experiment. AIP Conference Proceedings, 2001, , .	0.4	0
162	<title>Near-10-MeV ion acceleration in the forward direction and isotope production with a high-intensity laser</title>. , 2001, , .		0

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163	Forward ion acceleration and nuclear reactions on a tabletop driven by a high-intensity laser. , 2001, 4352, 120.		0
164	Low divergence laser-plasma-based beams. , 0, , .		0
165	Relativistic nonlinear optics of ultra-intense light. , 2001, , .		0
166	High harmonic generation in plasmas by relativistic Thomson scattering. , 0, , .		0
167	Developments in relativistic nonlinear optics. AIP Conference Proceedings, 2002, , .	0.4	0
168	Study of Energetic Ion Generation from High-Intensity-Laser Dense-Plasma Interactions. AIP Conference Proceedings, 2002, , .	0.4	0
169	High energy ion generation. , 2003, , .		0
170	Towards realizing optical injection of electrons in resonantly excited plasma Wakefields. , 0, , .		0
171	Nonlinear Thomson scattering in relativistic laser plasma interaction. , 2004, , ITul39.		0
172	Vacuum scattering technique for wakefield electron beam diagnostic and conditioning measurements. , 0, , .		0
173	Generation of ultrashort pulses of electrons, X-rays and optical pulses by relativistically strong light. AIP Conference Proceedings, 2006, , .	0.4	0
174	Application of a laser-wakefield driven monochromatic photon source to nuclear resonance fluorescence. , 2009, , .		0
175	Monte carlo characterization of a pulsed laser-wakefield driven monochromatic X-ray source. , 2009, , .		0
176	Background-free, quasi-monoenergetic electron beams from a self-injected laser wakefield accelerator. , 2011, , .		0
177	Improved particle statistics for laser-plasma self-injection simulations. , 2013, , .		0
178	Extreme Light: Driver for a Table-Top Electron Accelerator and Tunable Narrowband Hard X-Ray Light Source. , 2014, , .		0
179	Laser-wakefield electron accelerator with independent beam-parameter control. , 2014, , .		0
180	Tunable Monoenergetic Electron Beams from Staged Ionization Assisted Laser Wakefield Accelerator. , 2014, , .		0

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181	Independent control of laser wakefield-accelerated electron-beam parameters. , 2015, , .		0
182	Photonuclear and radiography applications of narrowband, multi-MeV all-optical Thomson x-ray source. , 2015, , .		0
183	Narrow bandwidth and tunable hard x-rays from an all-laser-driven Thomson light source. , 2015, , .		0
184	High-resolution radiography of thick steel objects using an all-laser-driven MeV-energy x-ray source. , 2016, , .		0
185	Extremely High-Order Multiphoton Thomson Scattering: Synchrotron Hard X-Rays from Ultra-Intense Laser Light. , 2018, , .		0
186	Measurements of Nonlinear Thomson Scattering Radiation Patterns from Elliptical Light with Polarization Resolution. , 2021, , .		0
187	High-harmonic generation by relativistic Thomson scattering. , 2002, , .		0
188	A LASER-DRIVEN ACCELERATOR AND THOMSON X-RAY SOURCE. , 2003, , .		0
189	Recent advances in relativistic nonlinear optics. , 2004, , .		0
190	Exact Field Solution for Diffraction Limited Laser Pulses. , 2005, , .		0
191	A Complete Analytical Description of Few Cycle, Focused Laser Pulses. , 2006, , .		0
192	Measurement of Damage Threshold for Metallic Gratings under Intense Laser Pulse Irradiation. , 2008, , .		0
193	Ultra-intense laser-matter interactions with a 150-terawatt power laser. , 2008, , .		0
194	Measurement of damage threshold for metallic gratings under intense laser pulse irradiation. , 2009, , .		0
195	High-brightness, Stable Electron Beams from a Laser Wakefield Accelerator Operating in the Matched Regime. , 2009, , .		0
196	Laser-plasma generated electron beams for radiographic applications. , 2009, , .		0
197	Characterization of wakefield accelerated electron beams by a spatial cross-correlation technique. , 2012, , .		0
198	Bright $\hat{\nu}^3$ -Ray Beam Source Based on Laser Wakefield Accelerator and Laser Undulator. , 2012, , .		0

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199	Radiation Reaction of Electrons Scattered by Intense Laser Light. , 2014, , .		0
200	Ponderomotive Steepening in Short-Scale-Length Laser-Plasmas. Springer Series in Chemical Physics, 1993, , 293-295.	0.2	0
201	Plasma Physics with Ultra-Short and Ultra-Intense Laser Pulses. Springer Series in Chemical Physics, 1993, , 267-271.	0.2	0
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