Leonida A Gizzi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/752463/publications.pdf

Version: 2024-02-01

212	5,140	117625	106344
papers	citations	34 h-index	65 g-index

217	217	217	2968
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Petawatt and exawatt class lasers worldwide. High Power Laser Science and Engineering, 2019, 7, .	4.6	574
2	Electric field detection in laser-plasma interaction experiments via the proton imaging technique. Physics of Plasmas, 2002, 9, 2214-2220.	1.9	378
3	Generation of neutral and high-density electronâ€“positron pair plasmas in the laboratory. Nature Communications, 2015, 6, 6747.	12.8	252
4	Macroscopic Evidence of Soliton Formation in Multiterawatt Laser-Plasma Interaction. Physical Review Letters, 2002, 88, 135002.	7.8	199
5	Relativistic Channeling of a Picosecond Laser Pulse in a Near-Critical Preformed Plasma. Physical Review Letters, 1997, 78, 879-882.	7.8	187
6	Proton imaging: a diagnostic for inertial confinement fusion/fast ignitor studies. Plasma Physics and Controlled Fusion, 2001, 43, A267-A276.	2.1	178
7	X-ray emission from laser-produced plasmas. Rivista Del Nuovo Cimento, 1998, 21, 1-93.	5.7	136
8	Thermodynamic equilibrium states in laser-induced plasmas: From the general case to laser-induced breakdown spectroscopy plasmas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 90, 1-22.	2.9	117
9	Evidence of Resonant Surface-Wave Excitation in the Relativistic Regime through Measurements of Proton Acceleration from Grating Targets. Physical Review Letters, 2013, 111, 185001.	7.8	100
10	Intense<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math>-Ray Source in the Giant-Dipole-Resonance Range Driven by 10-TW Laser Pulses. Physical Review Letters, 2008, 101, 105002.	7.8	94
11	2020 roadmap on plasma accelerators. New Journal of Physics, 2021, 23, 031101.	2.9	89
12	Proton imaging detection of transient electromagnetic fields in laser-plasma interactions (invited). Review of Scientific Instruments, 2003, 74, 1688-1693.	1.3	82
13	Measurement of highly transient electrical charging following high-intensity laserâ€“solid interaction. Applied Physics Letters, 2003, 82, 1529-1531.	3.3	81
14	Production of high-quality electron beams in numerical experiments of laser wakefield acceleration with longitudinal wave breaking. Physical Review Special Topics: Accelerators and Beams, 2003, 6, .	1.8	71
15	Dynamics of Self-Generated, Large Amplitude Magnetic Fields Following High-Intensity Laser Matter Interaction. Physical Review Letters, 2012, 109, 205002.	7.8	70
16	Simultaneous Measurements of Hard X Rays and Second-Harmonic Emission in fs Laser-Target Interactions. Physical Review Letters, 1996, 76, 2278-2281.	7.8	69
17	Production of ultracollimated bunches of multi-MeV electrons by 35 fs laser pulses propagating in exploding-foil plasmas. Physics of Plasmas, 2002, 9, 3655-3658.	1.9	64
18	EuPRAXIA Conceptual Design Report. European Physical Journal: Special Topics, 2020, 229, 3675-4284.	2.6	64

#	Article	IF	Citations
19	Observation of Solid-Density Laminar Plasma Transparency to Intense 30 Femtosecond Laser Pulses. Physical Review Letters, 1997, 79, 3194-3197.	7.8	60
20	Thomson backscattering X-rays from ultra-relativistic electron bunches and temporally shaped laser pulses. Applied Physics B: Lasers and Optics, 2005, 80, 419-436.	2.2	60
21	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.4	60
22	Analyzing laser plasma interferograms with a continuous wavelet transform ridge extraction technique: the method. Applied Optics, 2001, 40, 6561.	2.1	56
23	Generation of high pressure shocks relevant to the shock-ignition intensity regime. Physics of Plasmas, 2014, 21, .	1.9	55
24	Impulsive electric fields driven by high-intensity laser matter interactions. Laser and Particle Beams, 2007, 25, 161-167.	1.0	46
25	Laser-produced protons and their application as a particle probe. Laser and Particle Beams, 2002, 20, 269-275.	1.0	45
26	Magnetically Guided Fast Electrons in Cylindrically Compressed Matter. Physical Review Letters, 2011, 107, 065004.	7.8	45
27	Proton probing measurement of electric and magnetic fields generated by ns and ps laser-matter interactions. Laser and Particle Beams, 2008, 26, 241-248.	1.0	44
28	Characterization of laser plasmas for interaction studies. Physical Review E, 1994, 49, 5628-5643.	2.1	42
29	Plasma conditions generated by interaction of a high brightness, prepulse free Raman amplified KrF laser pulse with solid targets. Physical Review Letters, 1992, 69, 3739-3742.	7.8	37
30	Investigation on laserâ€“plasma coupling in intense, ultrashort irradiation of a nanostructured silicon target. Plasma Physics and Controlled Fusion, 2014, 56, 095001.	2.1	36
31	The resonant multi-pulse ionization injection. Physics of Plasmas, 2017, 24, .	1.9	36
32	Toward an effective use of laser-driven very high energy electrons for radiotherapy: Feasibility assessment of multi-field and intensity modulation irradiation schemes. Scientific Reports, 2020, 10, 17307.	3.3	36
33	Linear and Nonlinear Thomson Scattering for Advanced X-ray Sources in PLASMONX. IEEE Transactions on Plasma Science, 2008, 36, 1782-1789.	1.3	35
34	Prepulse effect on intense femtosecond laser pulse propagation in gas. Physics of Plasmas, 2006, 13, 093103.	1.9	34
35	Electron radiography using a table-top laser-cluster plasma accelerator. Journal Physics D: Applied Physics, 2013, 46, 245501.	2.8	33
36	Laser-driven generation of collimated ultra-relativistic positron beams. Plasma Physics and Controlled Fusion, 2013, 55, 124017.	2.1	33

#	Article	IF	Citations
37	Time evolution of stimulated Raman scattering and two-plasmon decay at laser intensities relevant for shock ignition in a hot plasma. High Power Laser Science and Engineering, 2019, 7, .	4.6	32
38	Spectroscopic evidence for sum frequency of forward and backscattered light in laser plasmas. Physical Review Letters, 1989, 63, 524-527.	7.8	31
39	SHEEBA: A spatial high energy electron beam analyzer. Review of Scientific Instruments, 2005, 76, 053303.	1.3	31
40	Characterization of laser plasmas for interaction studies: Progress in time-resolved density mapping. Physical Review E, 1996, 54, 6769-6773.	2.1	30
41	Proton radiography of laser-driven imploding target in cylindrical geometry. Physics of Plasmas, 2011, 18, 012704.	1.9	30
42	Recent results from experimental studies on laserâ€“plasma coupling in a shock ignition relevant regime. Plasma Physics and Controlled Fusion, 2013, 55, 124045.	2.1	30
43	3-D numerical simulation of Yb:YAG active slabs with longitudinal doping gradient for thermal load effects assessment. Optics Express, 2014, 22, 5375.	3.4	29
44	Transition from Coherent to Stochastic electron heating in ultrashort relativistic laser interaction with structured targets. Scientific Reports, 2017, 7, 1479.	3.3	29
45	Dynamics of charge-displacement channeling in intense laserâ€“plasma interactions. New Journal of Physics, 2007, 9, 402-402.	2.9	27
46	Study of forward accelerated fast electrons in ultrashort Ti K Î± sources. Applied Physics B: Lasers and Optics, 2007, 86, 229-233.	2.2	27
47	Micro-sphere layered targets efficiency in laser driven proton acceleration. Journal of Applied Physics, 2013, 114, .	2.5	27
48	An integrated approach to ultraintense laser sciences: The PLASMON-X project. European Physical Journal: Special Topics, 2009, 175, 3-10.	2.6	25
49	High-energy electron beam production by femtosecond laser interactions with exploding-foil plasmas. Physical Review E, 2001, 64, 015402.	2.1	24
50	Fast-electron transport in cylindrically laser-compressed matter. Plasma Physics and Controlled Fusion, 2009, 51, 124035.	2.1	24
51	Evidence for whole-beam self-focusing of induced spatially incoherent laser light in large underdense plasma. Physical Review Letters, 1992, 68, 942-945.	7.8	23
52	Spectral and angular characterization of laser-produced proton beams from dosimetric measurements. Laser and Particle Beams, 2004, 22, 393-397.	1.0	23
53	Observation of electron transport dynamics in high intensity laser interactions using multi-energy monochromatic x-ray imaging. Plasma Physics and Controlled Fusion, 2007, 49, B211-B221.	2.1	23
54	Measurements of parametric instabilities at laser intensities relevant to strong shock generation. Physics of Plasmas, 2018, 25, .	1.9	23

#	Article	IF	Citations
55	Laser wake field acceleration with controlled self-injection by sharp density transition. Laser and Particle Beams, 2004, 22, 423-429.	1.0	22
56	Pre-plasma effect on energy transfer from laser beam to shock wave generated in solid target. Physics of Plasmas, 2014, 21, 012708.	1.9	22
57	Radiobiological Effectiveness of Ultrashort Laser-Driven Electron Bunches: Micronucleus Frequency, Telomere Shortening and Cell Viability. Radiation Research, 2016, 186, 245-253.	1.5	21
58	Experimental observation of parametric instabilities at laser intensities relevant for shock ignition. Europhysics Letters, 2017, 117, 35001.	2.0	21
59	Stimulated Brillouin backscattering from underdense expanding plasmas in a regime of strong filamentation. Physical Review E, 1999, 59, 1038-1046.	2.1	20
60	Novel x-ray multispectral imaging of ultraintense laser plasmas by a single-photon charge coupled device based pinhole camera. Review of Scientific Instruments, 2007, 78, 103506.	1.3	20
61	Experimental investigation of fast electron transport through KÎ± imaging and spectroscopy in relativistic laserâ€“solid interactions. Plasma Physics and Controlled Fusion, 2009, 51, 014007.	2.1	20
62	Magnetically induced optical transparency of overdense plasmas due to ultrafast ionization. Physical Review E, 1998, 58, R1245-R1247.	2.1	19
63	Role of resistivity gradient in laser-driven ion acceleration. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	19
64	High-order harmonic generation from a linear chain of ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 2605-2615.	1.5	18
65	The HiPER project for inertial confinement fusion and some experimental results on advanced ignition schemes. Plasma Physics and Controlled Fusion, 2011, 53, 124041.	2.1	18
66	Observation of plasma density dependence of electromagnetic soliton excitation by an intense laser pulse. Physics of Plasmas, 2011, 18, 080704.	1.9	18
67	A New Line for Laser-Driven Light Ions Acceleration and Related TNSA Studies. Applied Sciences (Switzerland), 2017, 7, 984.	2.5	18
68	Laser-driven strong shocks with infrared lasers at intensity of 1016 W/cm2. Physics of Plasmas, 2019, 26, 112708.	1.9	18
69	Intense proton acceleration in ultrarelativistic interaction with nanochannels. Physical Review Research, 2020, 2, .	3.6	18
70	Spectroscopy of laser-plasma accelerated electrons: A novel concept based on Thomson scattering. Physics of Plasmas, 2003, 10, 917-920.	1.9	17
71	Laboratory measurements of resistivity in warm dense plasmas relevant to the microphysics of brown dwarfs. Nature Communications, 2015, 6, 8742.	12.8	17
72	Three-half harmonic generation in laser-plasma interaction: Evidence for plasmon propagation. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 845-858.	0.4	16

#	Article	IF	Citations
73	Non-adiabatic cluster expansion after ultrashort laser interaction. Laser and Particle Beams, 2008, 26, 69-82.	1.0	16
74	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas. Physics of Plasmas, 2011, 18, 043108.	1.9	16
75	High brightness laserâ€“plasma X-ray source at IFAM: Characterization and applications. Laser and Particle Beams, 2000, 18, 109-118.	1.0	15
76	Line spectroscopy with spatial resolution of laserâ€“plasma X-ray emission. Laser and Particle Beams, 2001, 19, 117-123.	1.0	15
77	Femtosecond interferometry of propagation of a laminar ionization front in a gas. Physical Review E, 2006, 74, 036403.	2.1	15
78	Laser-driven proton acceleration via excitation of surface plasmon polaritons into TiO₂ nanotube array targets. Plasma Physics and Controlled Fusion, 2020, 62, 114001.	2.1	15
79	Absorption of high-contrast 12-ps uv laser pulses by solid targets. Physical Review E, 1993, 48, 4855-4858.	2.1	14
80	Enhanced laser-driven proton acceleration via improved fast electron heating in a controlled pre-plasma. Scientific Reports, 2021, 11, 13728.	3.3	14
81	FLASH ultra-high dose rates in radiotherapy: preclinical and radiobiological evidence. International Journal of Radiation Biology, 2022, 98, 127-135.	1.8	14
82	Thomson Scattering Imaging From Ultrashort Ultraintense Laser Interaction With Gas. IEEE Transactions on Plasma Science, 2011, 39, 2954-2955.	1.3	13
83	Hot electron retention in laser plasma created under terawatt subnanosecond irradiation of Cu targets. Plasma Physics and Controlled Fusion, 2020, 62, 115020.	2.1	13
84	High quality electron bunches for a multistage GeV accelerator with resonant multipulse ionization injection. Physical Review Accelerators and Beams, 2019, 22, .	1.6	13
85	X-ray emission from thin-foil laser-produced plasmas. Laser and Particle Beams, 1992, 10, 65-74.	1.0	12
86	Relativistic interaction of rippled laser beams with plasmas. Laser and Particle Beams, 2000, 18, 399-403.	1.0	12
87	Nonlocal effects in the self-consistent nonlinear 3D propagation of an ultrastrong, femtosecond laser pulse in plasmas. European Physical Journal D, 2012, 66, 1.	1.3	12
88	Spatially resolved analysis ofKÎ±x-ray emission from plasmas induced by a femtosecond weakly relativistic laser pulse at various polarizations. Physical Review E, 2013, 87, 023103.	2.1	12
89	High-charge divergent electron beam generation from high-intensity laser interaction with a gas-cluster target. Laser and Particle Beams, 2015, 33, 331-338.	1.0	12
90	Rise time of proton cut-off energy in 2D and 3D PIC simulations. Physics of Plasmas, 2017, 24, .	1.9	12

#	Article	IF	Citations
91	Easy spectrally tunable highly efficient X-ray backlighting schemes based on spherically bent crystals. Laser and Particle Beams, 2004, 22, 289-300.	1.0	11
92	Ray-tracing simulations of a bent crystal X-ray optics for imaging using laserâ€“plasma X-ray sources. Laser and Particle Beams, 2004, 22, 253-259.	1.0	11
93	Small-scale laser based electron accelerators for biology and medicine: a comparative study of the biological effectiveness. Proceedings of SPIE, 2013, , .	0.8	11
94	X-ray conversion of ultra-short laser pulses on a solid sample: Role of electron waves excited in the pre-plasma. Physics of Plasmas, 2014, 21, .	1.9	11
95	Note: Real-time monitoring via second-harmonic interferometry of a flow gas cell for laser wakefield acceleration. Review of Scientific Instruments, 2016, 87, 086103.	1.3	11
96	Silicon nanowire based high brightness, pulsed relativistic electron source. APL Photonics, 2017, 2, .	5.7	11
97	Measurements of thermal transport in plasmas produced by picosecond laser pulses. Laser and Particle Beams, 1995, 13, 511-524.	1.0	10
98	Detailed characterization of the early x-ray emission of a plasma produced by point-like laser irradiation of solid Al targets. Physics of Plasmas, 2005, 12, 083101.	1.9	10
99	Production of hollow cylindrical plasmas for laser guiding in acceleration experiments. Applied Physics B: Lasers and Optics, 2006, 85, 611-617.	2.2	10
100	High-quality 5 GeV electron bunches with resonant multi-pulse ionization injection. Plasma Physics and Controlled Fusion, 2020, 62, 014010.	2.1	10
101	Relativistic laser propagation through underdense and overdense plasmas. Laser and Particle Beams, 2001, 19, 5-13.	1.0	9
102	Directional Bremsstrahlung from a Ti Laser-Produced X-Ray Source at Relativistic Intensities in the 3â€“12ÂkeV Range. Physical Review Letters, 2010, 105, 085001.	7.8	9
103	Proton radiography of cylindrical laser-driven implosions. Plasma Physics and Controlled Fusion, 2011, 53, 032003.	2.1	9
104	A novel technique for single-shot energy-resolved 2D x-ray imaging of plasmas relevant for the inertial confinement fusion. Review of Scientific Instruments, 2012, 83, 103504.	1.3	9
105	Space- and time-resolved observation of extreme laser frequency upshifting during ultrafast-ionization. Physics of Plasmas, 2013, 20, 082307.	1.9	9
106	Effects of small misalignments on the intensity and Strehl ratio for a laser beam focused by an off-axis parabola. Applied Optics, 2016, 55, 6506.	2.1	9
107	Transition to Filamentary Regime in Laser-Plasma Interaction Evidenced by 2Ï‰ Emission. Europhysics Letters, 1993, 22, 175-180.	2.0	8
108	Propagation issues and energetic particle production in laserâ€“plasma interactions at intensities exceeding 1019 W/cm2. Laser and Particle Beams, 2002, 20, 31-38.	1.0	8

#	Article	IF	Citations
109	On the effect of rear-surface dielectric coatings on laser-driven proton acceleration. Physics of Plasmas, 2009, 16, 100701.	1.9	8
110	Preliminary results from recent experiments and future roadmap to Shock Ignition of Fusion Targets. Journal of Physics: Conference Series, 2012, 399, 012005.	0.4	8
111	Studies of ablated plasma and shocks produced in a planar target by a sub-nanosecond laser pulse of intensity relevant to shock ignition. Laser and Particle Beams, 2015, 33, 561-575.	1.0	8
112	LESM: a laser-driven sub-MeV electron source delivering ultra-high dose rate on thin biological samples. Journal Physics D: Applied Physics, 2016, 49, 275401.	2.8	8
113	Numerical simulation of novel concept 4D cardiac microtomography for small rodents based on all-optical Thomson scattering X-ray sources. Scientific Reports, 2019, 9, 8439.	3.3	8
114	Relativistic laser interactions with preformed plasma channels and gamma-ray measurements. Laser and Particle Beams, 2001, 19, 181-186.	1.0	7
115	Analysis of space-resolved X-ray spectra from laser plasmas. Laser and Particle Beams, 2002, 20, 223-226.	1.0	7
116	Search for stable propagation of intense femtosecond laser pulses in gas. Laser and Particle Beams, 2007, 25, 513-521.	1.0	7
117	Precision X-ray spectroscopy of intense laser-plasma interactions. High Energy Density Physics, 2011, 7, 105-109.	1.5	7
118	Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. New Journal of Physics, 2013, 15, 015020.	2.9	7
119	Investigation on target normal sheath acceleration through measurements of ions energy distribution. Review of Scientific Instruments, 2016, 87, 02A909.	1.3	7
120	Short-wavelength experiments on laser pulse interaction with extended pre-plasma at the PALS-installation. Laser and Particle Beams, 2016, 34, 94-108.	1.0	7
121	Micron-scale mapping of megagauss magnetic fields using optical polarimetry to probe hot electron transport in petawatt-class laser-solid interactions. Scientific Reports, 2017, 7, 8347.	3.3	7
122	EuPRAXIA â€“ a compact, cost-efficient particle and radiation source. AIP Conference Proceedings, 2019, , .	0.4	7
123	InGaN/GaN multiple quantum well for superfast scintillation application: Photoluminescence measurements of the picosecond rise time and excitation density effect. Journal of Luminescence, 2019, 208, 119-124.	3.1	7
124	Bremsstrahlung cannon design for shock ignition relevant regime. Review of Scientific Instruments, 2021, 92, 013501.	1.3	7
125	Soft-x-ray emission dynamics in picosecond laser-produced plasmas. Physical Review E, 2000, 62, 2721-2727.	2.1	6
126	Application of novel techniques for interferogram analysis to laserâ€“plasma femtosecond probing. Laser and Particle Beams, 2002, 20, 195-199.	1.0	6

#	Article	IF	Citations
127	Soft laser-plasma X-ray source for differential absorption imaging of tracing elements in thin samples. Laser and Particle Beams, 2004, 22, 367-372.	1.0	6
128	Tracking propagation of ultrashort intense laser pulses in gases via probing of ionization. Physical Review E, 2009, 79, 056405.	2.1	6
129	Wavelength dependence of laser plasma interaction related to shock ignition approach. Laser and Particle Beams, 2018, 36, 405-426.	1.0	6
130	Conceptual Design of a Laser Driver for a Plasma Accelerator User Facility. Instruments, 2019, 3, 40.	1.8	6
131	Fabrication of ZnO-nanowire-coated thin-foil targets for ultra-high intensity laser interaction experiments. Matter and Radiation at Extremes, 2021, 6, .	3.9	6
132	Effect of Filamentation of Brillouin Scattering in Large Underdense Plasmas Irradiated by Incoherent Laser Light. Physical Review Letters, 1995, 75, 4413-4416.	7.8	5
133	Investigation of ultraintense femtosecond laserâ€“plasma interactions through Ï‰ and 2Ï‰ imaging and spectroscopy. Laser and Particle Beams, 2001, 19, 47-53.	1.0	5
134	Transient ionization in plasmas produced by point-like irradiation of solid Al targets. Physics of Plasmas, 2003, 10, 4601-4604.	1.9	5
135	Experimental characterization of picosecond laser interaction with solid targets. Physical Review E, 2008, 77, 056403.	2.1	5
136	Front- and rear-face X-ray emission from laser-irradiated Al foils. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 401-409.	0.4	4
137	Experimental investigation of fast electron transport in solid density matter: Recent results from a new technique of X-ray energy-encoded 2D imaging. Laser and Particle Beams, 2009, 27, 643-649.	1.0	4
138	High-Charge, Multi-MeV Electron Bunches Accelerated in Moderate Laser-Plasma Interaction Regime. AIP Conference Proceedings, 2010, , .	0.4	4
139	Intra-cycle depolarization of ultraintense laser pulses focused by off-axis parabolic mirrors. High Power Laser Science and Engineering, 2018, 6, .	4.6	4
140	Nonlinear Propagation of Intense Short Pulses Through Underdense Plasmas. Physica Scripta, 2000, T84, 191.	2.5	4
141	Laser Driven Plasma Instabilities at Moderate Laser Irradiances. , 1992, , 171-179.		3
142	X-ray emission from plasmas produced by Nd-laser on Fe targets. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 753-762.	0.4	3
143	A study of laser plasmas as X-ray sources in the 1â€“10 keV spectral region. Laser and Particle Beams, 1995, 13, 493-501.	1.0	3
144	A self-injection acceleration test experiment for the FLAME laser. Radiation Effects and Defects in Solids, 2010, 165, 787-793.	1.2	3

#	Article	IF	Citations
145	Proton Radiography of Intense-Laser-Irradiated Wire-Attached Cone Targets. IEEE Transactions on Plasma Science, 2011, 39, 2822-2823.	1.3	3
146	Characterization of Yb:YAG active slab media based on a layered structure with different doping. , 2013, , .		3
147	Focusing and stabilizing laserâ€“plasma-generated electron beams with magnetic devices. Japanese Journal of Applied Physics, 2014, 53, 092702.	1.5	3
148	Thermal lens measurements in Yb-doped YAG, LuAG, Lu₂O₃, Sc₂O₃ceramic lasers. Journal of Physics: Conference Series, 2014, 497, 012013.	0.4	3
149	Evidence of locally enhanced target heating due to instabilities of counter-streaming fast electron beams. Physics of Plasmas, 2015, 22, 020701.	1.9	3
150	Study of nuclear reactions in laser plasmas at future ELI-NP facility. EPJ Web of Conferences, 2016, 117, 05008.	0.3	3
151	Laser and optical properties of Yb:YAG ceramics with layered doping distribution: design, characterization and evaluation of different production processes. Proceedings of SPIE, 2016, , .	0.8	3
152	Overview and specifications of laser and target areas at the Intense Laser Irradiation Laboratory. High Power Laser Science and Engineering, 2021, 9, .	4.6	3
153	Inverse Compton Scattering X-ray Sources. , 2017, , 309-324.		3
154	Ready for translational research. Nature Physics, 2022, 18, 237-238.	16.7	3
155	Accurate electron beam phase-space theory for ionization-injection schemes driven by laser pulses. High Power Laser Science and Engineering, 2022, 10, .	4.6	3
156	Development of an experimental platform for the investigation of laserâ€“plasma interaction in conditions relevant to shock ignition regime. Review of Scientific Instruments, 2022, 93, .	1.3	3
157	Experimental study of X-ray generation in laser-produced plasmas based onK-shell time-resolved spectroscopy. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1996, 18, 727-738.	0.4	2
158	Quantitative analysis of thin samples by differential absorption imaging using a laser-plasma soft X-ray source. Applied Physics B: Lasers and Optics, 2005, 80, 897-903.	2.2	2
159	HIGH BRIGHTNESS LASER INDUCED MULTI-MEV ELECTRON/PROTON SOURCES. International Journal of Modern Physics A, 2007, 22, 3810-3825.	1.5	2
160	X-ray spectroscopic diagnostics of ultrashort laser-cluster interaction at the stage of the nonadiabatic scattering of clusters. JETP Letters, 2007, 86, 178-183.	1.4	2
161	BLISS@CNR-Pisa: a flexible laser for small scale test experiments on fusion oriented physics. , 2010, , .		2
162	Fabrication of 3-Î¼m diameter pin hole array (PHA) on thick W substrates. , 2010, , .		2

#	Article	IF	Citations
163	Experiment on laser interaction with a planar target for conditions relevant to shock ignition. Physica Scripta, 2014, T161, 014017.	2.5	2
164	Laser-Plasma Particle Sources for Biology and Medicine. Springer Series in Chemical Physics, 2015, , 151-178.	0.2	2
165	Eupraxia, A Step Toward A Plasma-Wakefield Based Accelerator With High Beam Quality. Journal of Physics: Conference Series, 2019, 1350, 012068.	0.4	2
166	Experimental study of picosecond laser plasma formation in thin foils. Laser and Particle Beams, 2000, 18, 145-150.	1.0	1
167	<title>Gamma-ray measurements in relativistic interaction with underdense plasmas</title>. , 2001, , .		1
168	HiPeG: A high performance balloon gondola for fine angular resolution X-ray telescopes. Advances in Space Research, 2006, 37, 2103-2107.	2.6	1
169	Fast electron generation for X-ray production in ultrashort laser interactions with solids. AIP Conference Proceedings, 2006, , .	0.4	1
170	<title>Optimization and control of bright, ultrafast laser driven X-ray sources</title>. , 2007, , .		1
171	Advanced Diagnostics Applied to a Laser-Driven Electron-Acceleration Experiment. IEEE Transactions on Plasma Science, 2008, 36, 1699-1706.	1.3	1
172	Ionizing radiation sources based on laser produced plasmas and applications. Radiation Effects and Defects in Solids, 2008, 163, 411-417.	1.2	1
173	X-ray diagnostics of fast electrons propagation in high density plasmas obtained by cylindrical compression. Journal of Physics: Conference Series, 2010, 244, 022027.	0.4	1
174	Towards Laser-Driven, Quasi-Monochromatic Ion Bunches via Ultrathin Targets Nano-Structuring?. , 2010, , .		1
175	Laser-IORT: a laser-driven source of relativistic electrons suitable for Intra-Operative Radiation Therapy of tumors. , 2010, , .		1
176	Investigation of laser plasmas relevant to shock ignition at PALS. Proceedings of SPIE, 2011, , .	0.8	1
177	Parametric instabilities study in a shock ignition relevant regime. Proceedings of SPIE, 2011, , .	0.8	1
178	Laser plasma proton acceleration experiments using foam-covered and grating targets. Proceedings of SPIE, 2013, , .	0.8	1
179	All-Optical X-Ray and Î³-Ray Sources from Ultraintense Laser-Matter Interactions. Biological and Medical Physics Series, 2016, , 183-201.	0.4	1
180	Study of shock waves generation, hot electron production and role of parametric instabilities in an intensity regime relevant for the shock ignition. Journal of Physics: Conference Series, 2016, 688, 012003.	0.4	1

#	Article	IF	Citations
181	High-quality electron bunch production for high-brilliance Thomson Scattering sources. , 2017, , .		1
182	Advances in X-Ray Studies of Ultraintense Laser-Plasma Interactions. Springer Series in Chemical Physics, 2010, , 123-138.	0.2	1
183	Numerical implementation of a hybrid PIC-fluid framework in laser-envelope approximation. Journal of Physics: Conference Series, 2020, 1596, 012062.	0.4	1
184	Proton Radiography and Fast Electron Propogation Through Cylidericallly Compressed Targets. Journal of the Korean Physical Society, 2010, 57, 305-310.	0.7	1
185	Guest Editor's Preface: ULIA-1 Conference. Laser and Particle Beams, 2000, 18, 353-353.	1.0	0
186	Laser energy deposition in relativistic interactions with underdense plasmas. European Physical Journal D, 2000, 8, 153-156.	1.3	0
187	Guest Editor's Preface: ULIA-2 Special Issue. Laser and Particle Beams, 2001, 19, 1-1.	1.0	0
188	<title>Propagation issues and fast particle source characterization in laser-plasma interactions at intensities exceeding 10<formula>^{<roman>19</roman>}</formula> W/cm<formula>^{<roman>2</roman>}</formula></title>. , 2001, 4424, 414.		0
189	<title>High-order harmonic generation and attosecond pulse production from a linear chain of ions</title>. , 2001, 4424, 430.		0
190	Publisherâ€™s Note: Production of high-quality electron beams in numerical experiments of laser wakefield acceleration with longitudinal wave breaking [Phys. Rev. ST Accel. Beams6, 121301 (2003)]. Physical Review Special Topics: Accelerators and Beams, 2004, 7, .	1.8	0
191	<title>R&D on high energy photonics at the intense last irradiation laboratory</title>. , 2005, , .		0
192	Design of a high update-rate star sensor for arcsec-level attitude determination from balloon-borne X/Î³ astronomy platforms. Experimental Astronomy, 2006, 21, 169-187.	3.7	0
193	Measurement Of Ultrafast Ionisation From Intense Laser Interactions With Gas-Jets. AIP Conference Proceedings, 2006, , .	0.4	0
194	Ultrafast Charge Dynamics Initiated by High-Intensity, Ultrashort Laser-Matter Interaction. AIP Conference Proceedings, 2006, , .	0.4	0
195	MeV PROTON SOURCES FOR PLASMA DYNAMICS INVESTIGATIONS ON PS TIMESCALES. International Journal of Modern Physics B, 2007, 21, 300-311.	2.0	0
196	<title>Production of plasma channels in gas-jets</title>. , 2007, , .		0
197	High repetition rate laser systems: targets, diagnostics and radiation protection. , 2010, , .		0
198	Results of a laser-driven electron acceleration experiment and perspectives of application for nuclear studies. Radiation Effects and Defects in Solids, 2010, 165, 774-779.	1.2	0

#	Article	IF	Citations
199	X-ray Polarization Measurements of Dense Plasmas Heated by Fast Electrons. , 2010, , .		0
200	Diagnosing Intense and Ultra-intense Laserâ€“Matter Interactions: Status and Future Requirements. Springer Series in Chemical Physics, 2010, , 277-308.	0.2	0
201	A novel single-shot, spectrally resolved x-ray imaging technique of ICF relevant plasmas. Proceedings of SPIE, 2011, , .	0.8	0
202	High resolution X-ray spectroscopy in fast electron transport studies. , 2011, , .		0
203	Can proton radiography be used to image imploding target in ICF experiments?. , 2011, , .		0
204	Experimental results performed in the framework of the HIPER European Project. , 2011, , .		0
205	A new technique for X-ray spectroscopy of laser-plasmas with simultaneous 2D spatial resolution over a broad spectral range. , 2012, , .		0
206	High energy electrons from interaction with a 10 mm gas-jet at FLAME. , 2013, , .		0
207	Laser-plasma acceleration and radiation sources for applications. , 2013, , .		0
208	Thomson parabola spectrometer: A powerful tool for on-line plasma analysis. , 2015, , .		0
209	Graded Yb:YAG ceramic structures: design, fabrication and characterization of the laser performances. , 2015, , .		0
210	Experimental investigation of ion production and acceleration mechanism in laser-produced plasma at moderate intensity for nuclear studies @ ELI-NP. Journal of Instrumentation, 2017, 12, C04011-C04011.	1.2	0
211	Summary of WG7â€”High brightness power sources: From laser technology to beam drivers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 450-451.	1.6	0
212	Nuclear Reactions Studies in Laser-Plasmas at the forthcoming ELI-NP facilities. Journal of Physics: Conference Series, 2018, 1014, 012006.	0.4	0