

# Yasuhiko Sentoku

## List of Publications by Year in descending order

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247  
papers

7,289  
citations

44069

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64796

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248  
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248  
docs citations

248  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of ultrafast heated radiative plasmas driven by petawatt laser light. Plasma Physics and Controlled Fusion, 2022, 64, 035004.	2.1	1
2	Super-strong magnetic field-dominated ion beam dynamics in focusing plasma devices. Scientific Reports, 2022, 12, 6876.	3.3	3
3	Isochoric heating of solid-density plasmas beyond keV temperature by fast thermal diffusion with relativistic picosecond laser light. Physical Review E, 2022, 105, .	2.1	1
4	Nanoscale subsurface dynamics of solids upon high-intensity femtosecond laser irradiation observed by grazing-incidence x-ray scattering. Physical Review Research, 2022, 4, .	3.6	5
5	2D monochromatic x-ray imaging for beam monitoring of an x-ray free electron laser and a high-power femtosecond laser. Review of Scientific Instruments, 2021, 92, 013510.	1.3	3
6	Effects of mixed laser beam irradiation with different wavelengths on fast electron generation. High Energy Density Physics, 2021, 38, 100918.	1.5	0
7	Hot Electron and Ion Spectra in Axial and Transverse Laser Irradiation in the GXII-LFEX Direct Fast Ignition Experiment. Plasma and Fusion Research, 2021, 16, 2404076-2404076.	0.7	2
8	Lateral confinement of fast electrons and its impact on laser ion acceleration. Physical Review Research, 2021, 3, .	3.6	4
9	Progress of Fast Ignition Study with High Intensity Laser. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 559-562.	0.0	1
10	Pulse duration constraint of whistler waves in magnetized dense plasma. Physical Review E, 2021, 104, 035205.	2.1	0
11	Improvement of ignition and burning target design for fast ignition scheme. Nuclear Fusion, 2021, 61, 126032.	3.5	0
12	Demonstration of TNSA proton radiography on the National Ignition Facility Advanced Radiographic Capability (NIF-ARC) laser. Plasma Physics and Controlled Fusion, 2021, 63, 124006.	2.1	6
13	Multivariate scaling of maximum proton energy in intense laser driven ion acceleration. Physical Review Research, 2021, 3, .	3.6	5
14	Plasma expansion accompanying superthermal electrons in over-picosecond relativistic laser-foil interactions. Plasma Physics and Controlled Fusion, 2020, 62, 014011.	2.1	1
15	Observation of ultra-high energy density state with x-ray free electron laser SACLA. High Energy Density Physics, 2020, 36, 100813.	1.5	4
16	Transition of dominant heating process from relativistic electron beam heating to thermal diffusion in an over picoseconds relativistic laser-solid interaction. High Energy Density Physics, 2020, 37, 100829.	1.5	4
17	Relativistic magnetic reconnection in laser laboratory for testing an emission mechanism of hard-state black hole system. Physical Review E, 2020, 102, 033202.	2.1	17
18	Verification of fast heating of core plasmas produced by counter-illumination of implosion lasers. High Energy Density Physics, 2020, 37, 100890.	1.5	3

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19	Two-color laser-plasma interactions for efficient production of non-thermal hot electrons. High Energy Density Physics, 2020, 36, 100843.	1.5	0
20	Intensification of laser-produced relativistic electron beam using converging magnetic fields for ignition in fast ignition laser fusion. High Energy Density Physics, 2020, 36, 100841.	1.5	7
21	Demonstration of repetitive energetic proton generation by ultra-intense laser interaction with a tape target. High Energy Density Physics, 2020, 37, 100847.	1.5	15
22	Effect of Small Focus on Electron Heating and Proton Acceleration in Ultrarelativistic Laser-Solid Interactions. Physical Review Letters, 2020, 124, 084802.	7.8	36
23	PIC simulation for dense high Z plasma formation with ultrashort petawatt laser including radiation processes. High Energy Density Physics, 2020, 36, 100816.	1.5	3
24	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. Physical Review Letters, 2020, 124, 035001.	7.8	26
25	Thermonuclear fusion triggered by collapsing standing whistler waves in magnetized overdense plasmas. Physical Review E, 2020, 101, 013206.	2.1	9
26	Monte Carlo particle collision model for qualitative analysis of neutron energy spectra from anisotropic inertial confinement fusion. High Energy Density Physics, 2020, 36, 100803.	1.5	8
27	Observation of MeV-energy ions from the interaction of over picosecond laser pulses with near-critical density foam targets. High Energy Density Physics, 2020, 36, 100821.	1.5	4
28	Dynamics of laser-driven heavy-ion acceleration clarified by ion charge states. Physical Review Research, 2020, 2, .	3.6	36
29	Plasma concept for generating circularly polarized electromagnetic waves with relativistic amplitude. Physical Review E, 2020, 102, 053214.	2.1	0
30	Enhancing laser beam performance by interfering intense laser beamlets. Nature Communications, 2019, 10, 2995.	12.8	16
31	Study of fast ignition target design for ignition and burning experiments. Nuclear Fusion, 2019, 59, 106055.	3.5	8
32	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. Communications Physics, 2019, 2, .	5.3	11
33	Enhanced heat transport in ablation plasma under transverse magnetic field by upper hybrid resonance heating. High Energy Density Physics, 2019, 30, 8-12.	1.5	1
34	A spherical shell pellet injection system for repetitive laser engagement. Nuclear Fusion, 2019, 59, 096022.	3.5	2
35	Electron acceleration in dense plasmas heated by a picosecond relativistic laser. Nuclear Fusion, 2019, 59, 086035.	3.5	8
36	Structure-preserving strategy for conservative simulation of the relativistic nonlinear Landau-Fokker-Planck equation. Physical Review E, 2019, 99, 053309.	2.1	5

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37	Monochromatic 2D $K \pm I_{\pm}$ Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. Physical Review Letters, 2019, 122, 155002.	7.8	16
38	First demonstration of ARC-accelerated proton beams at the National Ignition Facility. Physics of Plasmas, 2019, 26, .	1.9	34
39	Ultrafast wave-particle energy transfer in the collapse of standing whistler waves. Physical Review E, 2019, 100, 053205.	2.1	10
40	Modification of single-crystalline yttria-stabilised zirconia induced by radiation heating from laser-produced plasma. Journal Physics D: Applied Physics, 2019, 52, 105202.	2.8	1
41	Quadratic conservative scheme for relativistic Vlasov-Maxwell system. Journal of Computational Physics, 2019, 379, 32-50.	3.8	17
42	1-Hz Bead-Pellet Injection System for Fusion Reaction Engaged by a Laser HAMA Using Ultra-Intense Counter Beams. Fusion Science and Technology, 2019, 75, 36-48.	1.1	9
43	Efficient Fast Heating of Dense Core Plasma by Laser-Driven Strong Magnetic Field. The Review of Laser Engineering, 2019, 47, 536.	0.0	0
44	Simple Analysis of the Laser-to-Core Energy Coupling Efficiency with Magnetized Fast Isochoric Laser Heating. Plasma and Fusion Research, 2019, 14, 3404138-3404138.	0.7	1
45	Plasma density limits for hole boring by intense laser pulses. Nature Communications, 2018, 9, 623.	12.8	36
46	Self-generated surface magnetic fields inhibit laser-driven sheath acceleration of high-energy protons. Nature Communications, 2018, 9, 280.	12.8	54
47	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. Physics of Plasmas, 2018, 25, .	1.9	15
48	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. Nature Communications, 2018, 9, 3937.	12.8	75
49	X-ray radiation properties of plasma under interaction of femtosecond laser pulses with $\sim 10^{22}$ W/cm <sup>2</sup> intensities.., 2018, , .		0
50	Boosting laser-ion acceleration with multi-picosecond pulses. Scientific Reports, 2017, 7, 42451.	3.3	71
51	Validation of thermal conductivity in magnetized plasmas using particle-in-cell simulations. Physics of Plasmas, 2017, 24, .	1.9	5
52	Velocity measurement using frequency domain interferometer and chirped pulse laser. Proceedings of SPIE, 2017, , .	0.8	0
53	Ponderomotive scaling in the radiative damping regime. Physics of Plasmas, 2017, 24, 103302.	1.9	3
54	Kinetic modeling of x-ray laser-driven solid Al plasmas via particle-in-cell simulation. Physical Review E, 2017, 95, 063203.	2.1	17

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55	Effect of soft-core potentials on inverse bremsstrahlung heating during laser matter interactions. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	13
56	Fast ion acceleration in a foil plasma heated by a multi-picosecond high intensity laser. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	29
57	Broadening of cyclotron resonance conditions in the relativistic interaction of an intense laser with overdense plasmas. <i>Physical Review E</i> , 2017, 96, 043209.	2.1	13
58	Fast heating of fuel assembled in a spherical deuterated polystyrene shell target by counter-irradiating tailored laser pulses delivered by a HAMA 1 Hz ICF driver. <i>Nuclear Fusion</i> , 2017, 57, 116031.	3.5	10
59	Integrated simulation of magnetic-field-assist fast ignition laser fusion. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014045.	2.1	20
60	Direct heating of a laser-imploded core using ultraintense laser LFEX. <i>Nuclear Fusion</i> , 2017, 57, 076030.	3.5	1
61	Repetitive Solid Spherical Pellet Injection and Irradiation toward the Repetitive-mode Fast-Ignition Fusion miniReactor CANDY.. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012026.	0.4	0
62	Progress Towards a Laser Produced Relativistic Electron-Positron Pair Plasma. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012010.	0.4	4
63	Progress toward a unified kJ-machine CANDY. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012049.	0.4	2
64	Study of fast electron generation using multi beam of LFEX-class laser. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012037.	0.4	0
65	Target Monitoring and Plasma Diagnosis using 2 $\mu\text{m}$ probe beam for CANDY. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012036.	0.4	1
66	Upgrade of repetitive fast-heating fusion driver HAMA to implode a shell target by using diode pumped solid state laser. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012070.	0.4	3
67	Direct heating of compressed core by ultra-intense laser. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012055.	0.4	2
68	Amorphous nanostructuralization in HOPG by 1014W $\text{cm}^{-2}$ laser. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012073.	0.4	2
69	Fast Heating of Imploded Core with Counterbeam Configuration. <i>Physical Review Letters</i> , 2016, 117, 055001.	7.8	22
70	Comment on "In-depth Plasma-Wave Heating of Dense Plasma Irradiated by Short Laser Pulses". <i>Physical Review Letters</i> , 2016, 116, 159501.	7.8	2
71	Electron beam guiding by external magnetic fields in imploded fuel plasma. <i>Journal of Physics: Conference Series</i> , 2016, 717, 012025.	0.4	1
72	Dynamics and structure of self-generated magnetics fields on solids following high contrast, high intensity laser irradiation. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	18

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73	Multilayered polycrystallization in single-crystal YSZ by laser-shock compression. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 325305.	2.8	4
74	Scaling the Yield of Laser-Driven Electron-Positron Jets to Laboratory Astrophysical Applications. <i>Physical Review Letters</i> , 2015, 114, 215001.	7.8	104
75	Control of an electron beam using strong magnetic field for efficient core heating in fast ignition. <i>Nuclear Fusion</i> , 2015, 55, 053022.	3.5	37
76	The scaling of electron and positron generation in intense laser-solid interactions. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	37
77	Direct Heating of a Laser-Imploded Core by Ultraintense Laser-Driven Ions. <i>Physical Review Letters</i> , 2015, 114, 195002.	7.8	28
78	A compact broadband ion beam focusing device based on laser-driven megagauss thermoelectric magnetic fields. <i>Review of Scientific Instruments</i> , 2015, 86, 043502.	1.3	5
79	Characterization of intense laser-produced fast electrons using hard x-rays via bremsstrahlung. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 224008.	1.5	24
80	Scaling of resistive guiding of laser-driven fast-electron currents in solid targets. <i>Physical Review E</i> , 2014, 89, 023109.	2.1	26
81	Kinetic effects and nonlinear heating in intense x-ray-laser-produced carbon plasmas. <i>Physical Review E</i> , 2014, 90, 051102.	2.1	18
82	Laser- $\alpha$ plasma interactions for fast ignition. <i>Nuclear Fusion</i> , 2014, 54, 054002.	3.5	51
83	Repetitive 1 Hz Fast-Heating Fusion Driver HAMA Pumped by Diode Pumped Solid State Laser. <i>The Review of Laser Engineering</i> , 2014, 42, 154.	0.0	0
84	Terahertz wave frequency upconversion by rapid plasma creation. , 2013, , .		0
85	Effect of Target Material on Fast-Electron Transport and Resistive Collimation. <i>Physical Review Letters</i> , 2013, 110, 025001.	7.8	40
86	Collisional particle-in-cell modeling for energy transport accompanied by atomic processes in dense plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	30
87	1 Hz fast-heating fusion driver HAMA pumped by a 10 J green diode-pumped solid-state laser. <i>Nuclear Fusion</i> , 2013, 53, 073011.	3.5	21
88	Impact of extended preplasma on energy coupling in kilojoule energy relativistic laser interaction with cone wire targets relevant to fast ignition. <i>New Journal of Physics</i> , 2013, 15, 015020.	2.9	7
89	New insights into the laser produced electron-positron pairs. <i>New Journal of Physics</i> , 2013, 15, 065010.	2.9	24
90	First demonstration of laser engagement of 1-Hz-injected flying pellets and neutron generation. <i>Scientific Reports</i> , 2013, 3, 2561.	3.3	21

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91	Terahertz wave frequency upconversion by rapidly plasma creation. , 2013, , .		0
92	Dynamics of the spectral behaviour of an ultrashort laser pulse in an argon-gas-filled capillary discharge-preformed plasma channel. EPJ Web of Conferences, 2013, 59, 17002.	0.3	0
93	Frequency upshift via flash ionization phenomena using semiconductor plasma. EPJ Web of Conferences, 2013, 59, 19004.	0.3	1
94	Longitudinal proton probing of ultrafast and high-contrast laser-solid interactions. EPJ Web of Conferences, 2013, 59, 17014.	0.3	4
95	THz radiation from an ultrashort-laser-induced fast spark dense plasma. EPJ Web of Conferences, 2013, 59, 18007.	0.3	2
96	Target Injection and Engagement for Neutron Generation at 1 Hz. Plasma and Fusion Research, 2013, 8, 1205020-1205020.	0.7	14
97	Hi-rep. Counter-Illumination Fast Ignition Scheme Fusion. Plasma and Fusion Research, 2013, 8, 3404047-3404047.	0.7	7
98	Material Dependence of Energy Spectra of Fast Electrons Generated by Use of High Contrast Laser. The Review of Laser Engineering, 2013, 41, 49.	0.0	0
99	Higher order terms of radiative damping in extreme intense laser-matter interaction. Physics of Plasmas, 2012, 19, .	1.9	34
100	Self-proton/ion radiography of laser-produced proton/ion beam from thin foil targets. Physics of Plasmas, 2012, 19, .	1.9	4
101	Laser-driven relativistic electron beam interaction with solid dielectric. , 2012, , .		0
102	Fusion Using Fast Heating of a Compactly Imploded CD Core. Physical Review Letters, 2012, 108, 155001.	7.8	19
103	Experimental observation of frequency up-conversion by flash ionization. Applied Physics Letters, 2012, 101, .	3.3	29
104	Characteristics of argon plasma waveguide produced by alumina capillary discharge for short wavelength laser application. Journal of Applied Physics, 2012, 111, 093302.	2.5	3
105	Focusing Dynamics of High-Energy Density, Laser-Driven Ion Beams. Physical Review Letters, 2012, 108, 055001.	7.8	24
106	Propagation of a laser-driven relativistic electron beam inside a solid dielectric. Physical Review E, 2012, 86, 036412.	2.1	6
107	Measuring hot electron distributions in intense laser interaction with dense matter. New Journal of Physics, 2012, 14, 063023.	2.9	8
108	Tunable terahertz radiation from an ultrashort-laser-pulse-induced discharge in biased air. , 2011, , .		0

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109	Increased laser-accelerated proton energies via direct laser-light-pressure acceleration of electrons in microcone targets. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	149
110	X-ray spectroscopy to study energy transport of a low-Z, reduced mass target irradiated with a high-intensity laser pulse. <i>High Energy Density Physics</i> , 2011, 7, 117-123.	1.5	0
111	Dynamic Control over Mega-Ampere Electron Currents in Metals Using Ionization-Driven Resistive Magnetic Fields. <i>Physical Review Letters</i> , 2011, 107, 135005.	7.8	53
112	Fountain effect of laser-driven relativistic electrons inside a solid dielectric. <i>Applied Physics Letters</i> , 2011, 99, 131501.	3.3	10
113	Properties of a capillary discharge-produced argon plasma waveguide for shorter wavelength source application. <i>Review of Scientific Instruments</i> , 2011, 82, 103509.	1.3	4
114	THz wave up-frequency turning by rapidly plasma creation. , 2011, , .		0
115	Generation of THz radiation from a periodic electrostatic field via a relativistic ionization front. , 2011, , .		0
116	THz wave up-frequency turning by rapidly plasma creation. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
117	Energy transport and isochoric heating of a low-Z, reduced-mass target irradiated with a high intensity laser pulse. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	21
118	Isochoric heating of low-Z, reduced-mass targets with high intensity laser pulse. <i>Journal of Physics: Conference Series</i> , 2010, 244, 022054.	0.4	0
119	Hot electron generation at a steep interface in super intense laser-matter interaction. <i>Journal of Physics: Conference Series</i> , 2010, 244, 022048.	0.4	0
120	Transport of hot electron currents in solid targets irradiated by high intensity short laser pulses. <i>Journal of Physics: Conference Series</i> , 2010, 244, 022016.	0.4	1
121	Investigation of high intensity laser proton acceleration with underdense targets. <i>Journal of Physics: Conference Series</i> , 2010, 244, 042023.	0.4	12
122	Theoretical Understanding of Enhanced Proton Energies from Laser-Cone Interactions. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	2
123	Present status and future prospect of Fast Ignition Realization Experiment (FIREX) Project at ILE, Osaka. , 2010, , .		1
124	Low-Divergent, Energetic Electron Beams from Ultra-Thin Foils. , 2010, , .		2
125	Heat transport in solid target following relativistic laser-matter interaction. <i>High Energy Density Physics</i> , 2010, 6, 268-273.	1.5	3
126	Advanced Laser Particle Accelerator Development at LANL: From Fast Ignition to Radiation Oncology. , 2010, , .		2

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127	Enhanced Propagation for Relativistic Laser Pulses in Inhomogeneous Plasmas Using Hollow Channels. <i>Physical Review Letters</i> , 2010, 105, 225001.	7.8	17
128	Efficient laser-ion acceleration from closely stacked ultrathin foils. <i>Physical Review E</i> , 2010, 82, 016405.	2.1	5
129	Enhanced hot-electron localization and heating in high-contrast ultraintense laser irradiation of microcone targets. <i>Physical Review E</i> , 2009, 79, 036408.	2.1	23
130	Superthermal and Efficient-Heating Modes in the Interaction of a Cone Target with Ultraintense Laser Light. <i>Physical Review Letters</i> , 2009, 102, 045009.	7.8	19
131	Hot-electron energy coupling in ultraintense laser-matter interaction. <i>Physical Review E</i> , 2009, 79, 066406.	2.1	56
132	Guiding, Focusing, and Collimated Transport of Hot Electrons in a Canal in the Extended Tip of Cone Targets. <i>Physical Review Letters</i> , 2009, 102, 205003.	7.8	21
133	Autoinjection of electrons into a wake field using a capillary with attached cone. <i>Physics of Plasmas</i> , 2009, 16, 123103.	1.9	7
134	Proton, electron and K-alpha emission from micro-scale copper cone targets. , 2009, , .		0
135	Numerical study of the advanced target design for FIREX-I. <i>Nuclear Fusion</i> , 2009, 49, 075028.	3.5	8
136	Polarization Spectroscopy Modeling With The Inclusion Of Radiation Transport. , 2009, , .		0
137	Laser acceleration of high-energy protons in variable density plasmas. <i>New Journal of Physics</i> , 2009, 11, 023038.	2.9	26
138	Core heating properties in FIREX-1's influence of cone tip. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 014002.	2.1	28
139	Importance of magnetic resistive fields in the heating of a micro-cone target irradiated by a high intensity laser. <i>European Physical Journal: Special Topics</i> , 2009, 175, 89-95.	2.6	2
140	Laser-driven proton acceleration and applications: Recent results. <i>European Physical Journal: Special Topics</i> , 2009, 175, 105-110.	2.6	9
141	Intense laser-plasma interactions: New frontiers in high energy density physics. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	45
142	Hot electron generation forming a steep interface in superintense laser-matter interaction. <i>Physics of Plasmas</i> , 2009, 16, 112704.	1.9	26
143	Study of ultraintense laser propagation in overdense plasmas for fast ignition. <i>Physics of Plasmas</i> , 2009, 16, 056307.	1.9	25
144	Creating solid density warm matter by laser heating in external magnetic field. , 2009, , .		0

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145	Energy Injection for Fast Ignition. Plasma and Fusion Research, 2009, 4, 016-016.	0.7	1
146	Numerical methods for particle simulations at extreme densities and temperatures: Weighted particles, relativistic collisions and reduced currents. Journal of Computational Physics, 2008, 227, 6846-6861.	3.8	293
147	Hot-Electron Energy Coupling in Ultraintense Laser-Matter Interaction. Physical Review Letters, 2008, 101, 075004.	7.8	62
148	Fast Heating of Cylindrically Imploded Plasmas by Petawatt Laser Light. Physical Review Letters, 2008, 100, 165001.	7.8	14
149	Hot electron generation from intense laser irradiation of microtipped cone and wedge targets. Physics of Plasmas, 2008, 15, 052701.	1.9	10
150	Intensity scaling of hot electron energy coupling in cone-guided fast ignition. Physics of Plasmas, 2008, 15, 056309.	1.9	81
151	Generation of MeV-Range Protons From 30-100 nm Solid Targets by Ultra-High-Contrast Laser Pulses. IEEE Transactions on Plasma Science, 2008, 36, 1817-1820.	1.3	3
152	Laser-Driven Proton Beams: Acceleration Mechanism, Beam Optimization, and Radiographic Applications. IEEE Transactions on Plasma Science, 2008, 36, 1833-1842.	1.3	5
153	Focus optimization of relativistic self-focusing for anomalous laser penetration into overdense plasmas (super-penetration). Plasma Physics and Controlled Fusion, 2008, 50, 105011.	2.1	31
154	Increased efficiency of short-pulse laser-generated proton beams from novel flat-top cone targets. Physics of Plasmas, 2008, 15, .	1.9	61
155	Hot and Cold Electron Dynamics Following High-Intensity Laser Matter Interaction. Physical Review Letters, 2008, 101, 105004.	7.8	48
156	Fast heating of wire target attached on entrant hollow cone with ultra-intense laser up to keV order. Journal of Physics: Conference Series, 2008, 112, 022058.	0.4	0
157	Ultra-fast ionization modeling in laser-plasma interaction. Journal of Physics: Conference Series, 2008, 112, 022108.	0.4	1
158	Laser-acceleration of high-energy protons in small-scale gradients. Journal of Physics: Conference Series, 2008, 112, 022082.	0.4	0
159	Hot electron emission limited by self-excited fields from targets irradiated by ultra-intense laser pulses. Journal of Physics: Conference Series, 2008, 112, 022093.	0.4	1
160	Enhanced energy localization and heating in high contrast ultra-intense laser produced plasmas via novel conical micro-target design. Journal of Physics: Conference Series, 2008, 112, 022050.	0.4	2
161	PRESENT STATUS OF TABLE-TOP SHORT-PULSE BEAT WAVE ELECTRON ACCELERATION LASER SYSTEM. International Journal of Modern Physics B, 2007, 21, 572-578.	2.0	12
162	Comparative spectra and efficiencies of ions laser-accelerated forward from the front and rear surfaces of thin solid foils. Physics of Plasmas, 2007, 14, 053105.	1.9	62

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163	Energetic protons generated by ultrahigh contrast laser pulses interacting with ultrathin targets. <i>Physics of Plasmas</i> , 2007, 14, 030701.	1.9	92
164	Isochoric heating in heterogeneous solid targets with ultrashort laser pulses. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	29
165	Emittance growth mechanisms for laser-accelerated proton beams. <i>Physical Review E</i> , 2007, 75, 056401.	2.1	31
166	On the behavior of ultraintense laser produced hot electrons in self-excited fields. <i>Physics of Plasmas</i> , 2007, 14, 040706.	1.9	39
167	Dynamics of laser-plasma expansion across strong magnetic field. , 2007, , .		0
168	Laser-Foil Acceleration of High-Energy Protons in Small-Scale Plasma Gradients. <i>Physical Review Letters</i> , 2007, 99, 015002.	7.8	84
169	Laboratory simulation of magnetospheric plasma shocks. <i>Advances in Space Research</i> , 2007, 39, 358-369.	2.6	8
170	Influence of Electrostatic and Magnetic Fields on Hot Electron Emission in Ultra-Intense Laser Matter Interactions. <i>Plasma and Fusion Research</i> , 2007, 2, 015-015.	0.7	1
171	Fast Heating of High-Density Plasmas with a Reentrant Cone Concept. <i>Fusion Science and Technology</i> , 2006, 49, 316-326.	1.1	10
172	Laser Hole Boring and Hot Electron Generation in the Fast Ignition Scheme. <i>Fusion Science and Technology</i> , 2006, 49, 278-296.	1.1	47
173	Proton Acceleration: New Developments in Energy Increase, Focusing and Energy Selection. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	2
174	PIC Simulations of Proton Acceleration with High Intensity Lasers: the Transparency Regime, and Interaction with Underdense Targets. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
175	Transient Electrostatic Fields and Related Energetic Proton Generation with a Plasma Fiber. <i>Physical Review Letters</i> , 2006, 96, 084802.	7.8	14
176	Collisional Relaxation of Superthermal Electrons Generated by Relativistic Laser Pulses in Dense Plasma. <i>Physical Review Letters</i> , 2006, 97, 235001.	7.8	93
177	Core heating analysis of fast ignition targets by integrated simulations. <i>European Physical Journal Special Topics</i> , 2006, 133, 385-389.	0.2	13
178	Full scale explicit PIC simulation of fast ignition experiment. <i>European Physical Journal Special Topics</i> , 2006, 133, 425-427.	0.2	7
179	Isochoric heating of hot dense matter by magnetization of fast electrons produced by ultra-intense short pulse irradiation. <i>European Physical Journal Special Topics</i> , 2006, 133, 521-523.	0.2	10
180	WE-E-330D-01: The Production of Ultrafast Bright K-Alpha X-Rays From Laser Produced Plasmas for Medical Imaging. <i>Medical Physics</i> , 2006, 33, 2251-2251.	3.0	3

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