

Yasuhiko Sentoku

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

221
papers

6,381
citations

45
h-index

74
g-index

248
ext. papers

6,832
ext. citations

3.2
avg, IF

5.22
L-index

#	Paper	IF	Citations
221	Enhancement of proton acceleration by hot-electron recirculation in thin foils irradiated by ultraintense laser pulses. <i>Physical Review Letters</i> , 2002 , 88, 215006	7.4	366
220	Numerical methods for particle simulations at extreme densities and temperatures: Weighted particles, relativistic collisions and reduced currents. <i>Journal of Computational Physics</i> , 2008 , 227, 6846-6861	4.1	257
219	High energy proton acceleration in interaction of short laser pulse with dense plasma target. <i>Physics of Plasmas</i> , 2003 , 10, 2009-2015	2.1	236
218	Laser light and hot electron micro focusing using a conical target. <i>Physics of Plasmas</i> , 2004 , 11, 3083-3087	2.1	171
217	Anomalous resistivity resulting from MeV-electron transport in overdense plasma. <i>Physical Review Letters</i> , 2003 , 90, 155001	7.4	167
216	Stochastic heating and acceleration of electrons in colliding laser fields in plasma. <i>Physical Review Letters</i> , 2002 , 88, 055004	7.4	153
215	Plasma devices to guide and collimate a high density of MeV electrons. <i>Nature</i> , 2004 , 432, 1005-8	50.4	151
214	Spatial uniformity of laser-accelerated ultrahigh-current MeV electron propagation in metals and insulators. <i>Physical Review Letters</i> , 2003 , 91, 255002	7.4	149
213	Increased laser-accelerated proton energies via direct laser-light-pressure acceleration of electrons in microcone targets. <i>Physics of Plasmas</i> , 2011 , 18, 056710	2.1	137
212	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	1.9	133
211	Electron acceleration by a short relativistic laser pulse at the front of solid targets. <i>Physical Review Letters</i> , 2000 , 85, 570-3	7.4	122
210	Comparison of laser ion acceleration from the front and rear surfaces of thin foils. <i>Physical Review Letters</i> , 2005 , 94, 045004	7.4	114
209	Magnetic instability by the relativistic laser pulses in overdense plasmas. <i>Physics of Plasmas</i> , 2000 , 7, 689-695	2.1	110
208	Angular distributions of fast electrons, ions, and Bremsstrahlung x/gamma-rays in intense laser interaction with solid targets. <i>Physical Review Letters</i> , 2000 , 85, 5340-3	7.4	108
207	Studies of ultra-intense laser plasma interactions for fast ignition. <i>Physics of Plasmas</i> , 2000 , 7, 2014-2022	2.1	103
206	Proton spectra from ultraintense laser-plasma interaction with thin foils: Experiments, theory, and simulation. <i>Physics of Plasmas</i> , 2003 , 10, 3283-3289	2.1	100
205	Observation of proton rear emission and possible gigagauss scale magnetic fields from ultra-intense laser illuminated plastic target. <i>Physics of Plasmas</i> , 2001 , 8, 4138-4143	2.1	100

204	High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. <i>Physical Review E</i> , 2000 , 62, 7271-81	2.4	95
203	Bursts of Superreflected Laser Light from Inhomogeneous Plasmas due to the Generation of Relativistic Solitary Waves. <i>Physical Review Letters</i> , 1999 , 83, 3434-3437	7.4	94
202	Plasma jet formation and magnetic-field generation in the intense laser plasma under oblique incidence. <i>Physics of Plasmas</i> , 1999 , 6, 2855-2861	2.1	88
201	Energetic protons generated by ultrahigh contrast laser pulses interacting with ultrathin targets. <i>Physics of Plasmas</i> , 2007 , 14, 030701	2.1	87
200	Collisional relaxation of superthermal electrons generated by relativistic laser pulses in dense plasma. <i>Physical Review Letters</i> , 2006 , 97, 235001	7.4	83
199	Observation of neutron spectrum produced by fast deuterons via ultraintense laser plasma interactions. <i>Physical Review E</i> , 2002 , 65, 036413	2.4	81
198	Scaling the yield of laser-driven electron-positron jets to laboratory astrophysical applications. <i>Physical Review Letters</i> , 2015 , 114, 215001	7.4	79
197	Intensity scaling of hot electron energy coupling in cone-guided fast ignition). <i>Physics of Plasmas</i> , 2008 , 15, 056309	2.1	77
196	Laser-foil acceleration of high-energy protons in small-scale plasma gradients. <i>Physical Review Letters</i> , 2007 , 99, 015002	7.4	76
195	Three-dimensional particle-in-cell simulations of energetic electron generation and transport with relativistic laser pulses in overdense plasmas. <i>Physical Review E</i> , 2002 , 65, 046408	2.4	76
194	Collimated Electron Jets by Intense Laser-Beam-Plasma Surface Interaction under Oblique Incidence. <i>Physical Review Letters</i> , 1999 , 82, 743-746	7.4	75
193	Generation of collimated beams of relativistic ions in laser-plasma interactions. <i>JETP Letters</i> , 2000 , 71, 407-411	1.2	74
192	Ion acceleration by superintense laser pulses in plasmas. <i>JETP Letters</i> , 1999 , 70, 82-89	1.2	73
191	Long-scale jet formation with specularly reflected light in ultraintense laser-plasma interactions. <i>Physical Review Letters</i> , 2000 , 84, 674-7	7.4	71
190	Fast ignitor research at the Institute of Laser Engineering, Osaka University. <i>Physics of Plasmas</i> , 2001 , 8, 2268-2274	2.1	69
189	Particle simulation on x-ray emissions from ultra-intense laser produced plasmas. <i>Physics of Plasmas</i> , 1998 , 5, 4366-4372	2.1	57
188	Hot-electron energy coupling in ultraintense laser-matter interaction. <i>Physical Review Letters</i> , 2008 , 101, 075004	7.4	56
187	Increased efficiency of short-pulse laser-generated proton beams from novel flat-top cone targets). <i>Physics of Plasmas</i> , 2008 , 15, 056709	2.1	56

186	Basic and integrated studies for fast ignition. <i>Physics of Plasmas</i> , 2003 , 10, 1925-1930	2.1	55
185	Comparative spectra and efficiencies of ions laser-accelerated forward from the front and rear surfaces of thin solid foils. <i>Physics of Plasmas</i> , 2007 , 14, 053105	2.1	54
184	Hot-electron energy coupling in ultraintense laser-matter interaction. <i>Physical Review E</i> , 2009 , 79, 066406	2.4	53
183	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53
182	Boosting laser-ion acceleration with multi-picosecond pulses. <i>Scientific Reports</i> , 2017 , 7, 42451	4.9	51
181	Dynamic control over mega-ampere electron currents in metals using ionization-driven resistive magnetic fields. <i>Physical Review Letters</i> , 2011 , 107, 135005	7.4	51
180	Electron acceleration in an ultraintense-laser-illuminated capillary. <i>Physical Review Letters</i> , 2004 , 92, 205002	7.4	51
179	Progress of fast ignitor studies and Petawatt laser construction at Osaka University. <i>Physics of Plasmas</i> , 2002 , 9, 2202-2207	2.1	47
178	High-energy ion generation by short laser pulses. <i>Plasma Physics Reports</i> , 2004 , 30, 473-495	1.2	46
177	Fast ion acceleration in ultraintense laser interactions with an overdense plasma. <i>Physical Review E</i> , 2004 , 69, 036407	2.4	45
176	Stimulated photon cascade and condensate in a relativistic laser-plasma interaction. <i>Physics of Plasmas</i> , 2001 , 8, 2349-2356	2.1	45
175	Weakly relativistic one-dimensional laser pulse envelope solitons in a warm plasma. <i>Physics of Plasmas</i> , 2002 , 9, 3802-3810	2.1	45
174	Hot and cold electron dynamics following high-intensity laser matter interaction. <i>Physical Review Letters</i> , 2008 , 101, 105004	7.4	44
173	Laser Hole Boring and Hot Electron Generation in the Fast Ignition Scheme. <i>Fusion Science and Technology</i> , 2006 , 49, 278-296	1.1	44
172	Laser-plasma interactions for fast ignition. <i>Nuclear Fusion</i> , 2014 , 54, 054002	3.3	43
171	Self-generated surface magnetic fields inhibit laser-driven sheath acceleration of high-energy protons. <i>Nature Communications</i> , 2018 , 9, 280	17.4	40
170	Intense laser-plasma interactions: New frontiers in high energy density physics. <i>Physics of Plasmas</i> , 2009 , 16, 041002	2.1	40
169	On the behavior of ultraintense laser produced hot electrons in self-excited fields. <i>Physics of Plasmas</i> , 2007 , 14, 040706	2.1	39

168	Effect of target material on fast-electron transport and resistive collimation. <i>Physical Review Letters</i> , 2013 , 110, 025001	7.4	36
167	Generation of high-amplitude plasma waves for particle acceleration by cross-modulated laser wake fields. <i>Physics of Plasmas</i> , 2002 , 9, 3147-3153	2.1	36
166	Control of an electron beam using strong magnetic field for efficient core heating in fast ignition. <i>Nuclear Fusion</i> , 2015 , 55, 053022	3.3	35
165	Focus optimization of relativistic self-focusing for anomalous laser penetration into overdense plasmas (super-penetration). <i>Plasma Physics and Controlled Fusion</i> , 2008 , 50, 105011	2	30
164	Emittance growth mechanisms for laser-accelerated proton beams. <i>Physical Review E</i> , 2007 , 75, 056401	2.4	30
163	Effects of Relativistic Binary Collisions on PIC Simulation of Laser Plasmas. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 4084-4088	1.5	30
162	The scaling of electron and positron generation in intense laser-solid interactions. <i>Physics of Plasmas</i> , 2015 , 22, 056705	2.1	29
161	Higher order terms of radiative damping in extreme intense laser-matter interaction. <i>Physics of Plasmas</i> , 2012 , 19, 073304	2.1	28
160	Plasma density limits for hole boring by intense laser pulses. <i>Nature Communications</i> , 2018 , 9, 623	17.4	27
159	Parametric instabilities of intense lasers from interaction with relativistic hot plasmas. <i>Physical Review E</i> , 2000 , 61, 4362-9	2.4	27
158	Laser acceleration of high-energy protons in variable density plasmas. <i>New Journal of Physics</i> , 2009 , 11, 023038	2.9	26
157	Broad-range neutron spectra identification in ultraintense laser interactions with carbon-deuterated plasma. <i>Physics of Plasmas</i> , 2005 , 12, 110703	2.1	26
156	Scaling of resistive guiding of laser-driven fast-electron currents in solid targets. <i>Physical Review E</i> , 2014 , 89, 023109	2.4	25
155	Collisional particle-in-cell modeling for energy transport accompanied by atomic processes in dense plasmas. <i>Physics of Plasmas</i> , 2013 , 20, 072704	2.1	25
154	Core heating properties in FIREX-I: influence of cone tip. <i>Plasma Physics and Controlled Fusion</i> , 2009 , 51, 014002	2	25
153	Momentum distribution of accelerated ions in ultra-intense laser-plasma interactions via neutron spectroscopy. <i>Physics of Plasmas</i> , 2003 , 10, 3712-3716	2.1	25
152	Generation of subcycle relativistic solitons by super intense laser pulses in plasmas. <i>Physica D: Nonlinear Phenomena</i> , 2001 , 152-153, 682-693	3.3	25
151	Isochoric heating in heterogeneous solid targets with ultrashort laser pulses. <i>Physics of Plasmas</i> , 2007 , 14, 122701	2.1	24

150	Focusing dynamics of high-energy density, laser-driven ion beams. <i>Physical Review Letters</i> , 2012 , 108, 055001	7.4	23
149	Hot electron generation forming a steep interface in superintense laser-matter interaction. <i>Physics of Plasmas</i> , 2009 , 16, 112704	2.1	23
148	Fast ion acceleration in a foil plasma heated by a multi-picosecond high intensity laser. <i>Physics of Plasmas</i> , 2017 , 24, 073111	2.1	22
147	New insights into the laser produced electron-positron pairs. <i>New Journal of Physics</i> , 2013 , 15, 065010	2.9	22
146	Study of ultraintense laser propagation in overdense plasmas for fast ignitiona). <i>Physics of Plasmas</i> , 2009 , 16, 056307	2.1	22
145	First demonstration of ARC-accelerated proton beams at the National Ignition Facility. <i>Physics of Plasmas</i> , 2019 , 26, 043110	2.1	21
144	Enhanced hot-electron localization and heating in high-contrast ultraintense laser irradiation of microcone targets. <i>Physical Review E</i> , 2009 , 79, 036408	2.4	21
143	Petawatt-laser direct heating of uniformly imploded deuterated-polystyrene shell target. <i>Physical Review E</i> , 2005 , 71, 016403	2.4	21
142	Effect of Small Focus on Electron Heating and Proton Acceleration in Ultrarelativistic Laser-Solid Interactions. <i>Physical Review Letters</i> , 2020 , 124, 084802	7.4	20
141	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	7.4	20
140	Direct heating of a laser-imploded core by ultraintense laser-driven ions. <i>Physical Review Letters</i> , 2015 , 114, 195002	7.4	19
139	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, 022702	2.1	19
138	Experimental observation of frequency up-conversion by flash ionization. <i>Applied Physics Letters</i> , 2012 , 101, 161118	3.4	19
137	Performance comparison of self-focusing with 1053- and 351-nm laser pulses. <i>Physical Review E</i> , 1999 , 60, 3283-8	2.4	19
136	Anomalous inhibition of electron transport in laser-matter interaction at subrelativistic intensities. <i>Physics of Plasmas</i> , 2004 , 11, L69-L72	2.1	18
135	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	1.3	17
134	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	3.3	17
133	Fusion using fast heating of a compactly imploded CD core. <i>Physical Review Letters</i> , 2012 , 108, 155001	7.4	17

132	First demonstration of laser engagement of 1-Hz-injected flying pellets and neutron generation. <i>Scientific Reports</i> , 2013 , 3, 2561	4.9	16
131	Superthermal and efficient-heating modes in the interaction of a cone target with ultraintense laser light. <i>Physical Review Letters</i> , 2009 , 102, 045009	7.4	16
130	Kinetic modeling of x-ray laser-driven solid Al plasmas via particle-in-cell simulation. <i>Physical Review E</i> , 2017 , 95, 063203	2.4	15
129	Integrated simulation of magnetic-field-assist fast ignition laser fusion. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014045	2	15
128	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 1-5	1	15
127	Enhanced propagation for relativistic laser pulses in inhomogeneous plasmas using hollow channels. <i>Physical Review Letters</i> , 2010 , 105, 225001	7.4	14
126	Fast heating of cylindrically imploded plasmas by petawatt laser light. <i>Physical Review Letters</i> , 2008 , 100, 165001	7.4	14
125	Pion production under the action of intense ultrashort laser pulse on a solid target. <i>JETP Letters</i> , 2001 , 74, 586-589	1.2	14
124	Dynamics of laser-driven heavy-ion acceleration clarified by ion charge states. <i>Physical Review Research</i> , 2020 , 2,	3.9	14
123	Fast Heating of Imploded Core with Counterbeam Configuration. <i>Physical Review Letters</i> , 2016 , 117, 055001	7.4	14
122	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. <i>Physical Review Letters</i> , 2020 , 124, 035001	7.4	13
121	Kinetic effects and nonlinear heating in intense x-ray-laser-produced carbon plasmas. <i>Physical Review E</i> , 2014 , 90, 051102	2.4	13
120	Transient electrostatic fields and related energetic proton generation with a plasma fiber. <i>Physical Review Letters</i> , 2006 , 96, 084802	7.4	13
119	Generation of one-cycle laser pulses by use of high-amplitude plasma waves. <i>Physical Review E</i> , 2000 , 62, 7258-65	2.4	13
118	PRESENT STATUS OF TABLE-TOP SHORT-PULSE BEAT WAVE ELECTRON ACCELERATION LASER SYSTEM. <i>International Journal of Modern Physics B</i> , 2007 , 21, 572-578	1.1	12
117	Target Injection and Engagement for Neutron Generation at 1 Hz. <i>Plasma and Fusion Research</i> , 2013 , 8, 1205020-1205020	0.5	12
116	Core heating analysis of fast ignition targets by integrated simulations. <i>European Physical Journal Special Topics</i> , 2006 , 133, 385-389		12
115	Monochromatic 2D K α Emission Images Revealing Short-Pulse Laser Isochoric Heating Mechanism. <i>Physical Review Letters</i> , 2019 , 122, 155002	7.4	11

114	Enhancing laser beam performance by interfering intense laser beamlets. <i>Nature Communications</i> , 2019 , 10, 2995	17.4	11
113	Dynamics and structure of self-generated magnetic fields on solids following high contrast, high intensity laser irradiation. <i>Physics of Plasmas</i> , 2015 , 22, 123108	2.1	11
112	Investigation of high intensity laser proton acceleration with underdense targets. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 042023	0.3	11
111	Ultra-low emittance, high current proton beams produced with a laser-virtual cathode sheath accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 544, 277-284	1.2	10
110	Effect of soft-core potentials on inverse bremsstrahlung heating during laser matter interactions. <i>Physics of Plasmas</i> , 2017 , 24, 073303	2.1	9
109	Broadening of cyclotron resonance conditions in the relativistic interaction of an intense laser with overdense plasmas. <i>Physical Review E</i> , 2017 , 96, 043209	2.4	9
108	Fountain effect of laser-driven relativistic electrons inside a solid dielectric. <i>Applied Physics Letters</i> , 2011 , 99, 131501	3.4	9
107	Hot electron generation from intense laser irradiation of microtipped cone and wedge targets. <i>Physics of Plasmas</i> , 2008 , 15, 052701	2.1	9
106	Energetic Proton Generation in a Thin Plastic Foil Irradiated by Intense Femtosecond Lasers		9
105	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		9
104	Quadratic conservative scheme for relativistic Vlasov-Maxwell system. <i>Journal of Computational Physics</i> , 2019 , 379, 32-50	4.1	9
103	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. <i>Communications Physics</i> , 2019 , 2,	5.4	8
102	Measuring hot electron distributions in intense laser interaction with dense matter. <i>New Journal of Physics</i> , 2012 , 14, 063023	2.9	8
101	Fast Heating of High-Density Plasmas with a Reentrant Cone Concept. <i>Fusion Science and Technology</i> , 2006 , 49, 316-326	1.1	8
100	Laboratory Simulation of Magnetospheric Plasma Shocks. <i>Astrophysics and Space Science</i> , 2005 , 298, 299-303	1.0	8
99	Characterization of fast electron divergence and energy spectrum from modeling of angularly resolved bremsstrahlung measurements. <i>Physics of Plasmas</i> , 2018 , 25, 123103	2.1	8
98	Autoinjection of electrons into a wake field using a capillary with attached cone. <i>Physics of Plasmas</i> , 2009 , 16, 123103	2.1	7
97	Numerical study of the advanced target design for FIREX-I. <i>Nuclear Fusion</i> , 2009 , 49, 075028	3.3	7

96	Laser-driven proton acceleration and applications: Recent results. <i>European Physical Journal: Special Topics</i> , 2009 , 175, 105-110	2.3	7
95	Laboratory simulation of magnetospheric plasma shocks. <i>Advances in Space Research</i> , 2007 , 39, 358-369	2.4	7
94	Full scale explicit PIC simulation of fast ignition experiment. <i>European Physical Journal Special Topics</i> , 2006 , 133, 425-427		7
93	Electron acceleration in dense plasmas heated by a picosecond relativistic laser. <i>Nuclear Fusion</i> , 2019 , 59, 086035	3.3	6
92	Demonstration of repetitive energetic proton generation by ultra-intense laser interaction with a tape target. <i>High Energy Density Physics</i> , 2020 , 37, 100847	1.2	6
91	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	3.3	6
90	Propagation of a laser-driven relativistic electron beam inside a solid dielectric. <i>Physical Review E</i> , 2012 , 86, 036412	2.4	6
89	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	6
88	Harmonic emission with cyclotron satellite structure due to strong magnetic fields produced by ultra-intense laser-plasma interaction. <i>Physics of Plasmas</i> , 2002 , 9, 3193-3196	2.1	6
87	Hi-rep. Counter-Illumination Fast Ignition Scheme Fusion. <i>Plasma and Fusion Research</i> , 2013 , 8, 3404047-3404047	3.5	6
86	Relativistic magnetic reconnection in laser laboratory for testing an emission mechanism of hard-state black hole system. <i>Physical Review E</i> , 2020 , 102, 033202	2.4	6
85	Study of fast ignition target design for ignition and burning experiments. <i>Nuclear Fusion</i> , 2019 , 59, 106055	3.5	5
84	Structure-preserving strategy for conservative simulation of the relativistic nonlinear Landau-Fokker-Planck equation. <i>Physical Review E</i> , 2019 , 99, 053309	2.4	5
83	A compact broadband ion beam focusing device based on laser-driven megagauss thermoelectric magnetic fields. <i>Review of Scientific Instruments</i> , 2015 , 86, 043502	1.7	5
82	Efficient laser-ion acceleration from closely stacked ultrathin foils. <i>Physical Review E</i> , 2010 , 82, 016405	2.4	5
81	Electron cyclotron heating by whistler waves generated during the interaction of a laser pulse with a magnetized plasma. <i>Physics of Plasmas</i> , 2005 , 12, 082107	2.1	5
80	Ultrafast wave-particle energy transfer in the collapse of standing whistler waves. <i>Physical Review E</i> , 2019 , 100, 053205	2.4	5
79	1-Hz Bead-Pellet Injection System for Fusion Reaction Engaged by a Laser HAMA Using Ultra-Intense Counter Beams. <i>Fusion Science and Technology</i> , 2019 , 75, 36-48	1.1	5

78	Thermonuclear fusion triggered by collapsing standing whistler waves in magnetized overdense plasmas. <i>Physical Review E</i> , 2020 , 101, 013206	2.4	4
77	Multilayered polycrystallization in single-crystal YSZ by laser-shock compression. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 325305	3	4
76	Laser-Driven Proton Beams: Acceleration Mechanism, Beam Optimization, and Radiographic Applications. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1833-1842	1.3	4
75	Fast ion generation in ultra-intense laser interactions with plasmas 2000 ,		4
74	Validation of thermal conductivity in magnetized plasmas using particle-in-cell simulations. <i>Physics of Plasmas</i> , 2017 , 24, 042117	2.1	3
73	Ponderomotive scaling in the radiative damping regime. <i>Physics of Plasmas</i> , 2017 , 24, 103302	2.1	3
72	Longitudinal proton probing of ultrafast and high-contrast laser-solid interactions. <i>EPJ Web of Conferences</i> , 2013 , 59, 17014	0.3	3
71	Properties of a capillary discharge-produced argon plasma waveguide for shorter wavelength source application. <i>Review of Scientific Instruments</i> , 2011 , 82, 103509	1.7	3
70	Self-proton/ion radiography of laser-produced proton/ion beam from thin foil targets. <i>Physics of Plasmas</i> , 2012 , 19, 123101	2.1	3
69	Characteristics of argon plasma waveguide produced by alumina capillary discharge for short wavelength laser application. <i>Journal of Applied Physics</i> , 2012 , 111, 093302	2.5	3
68	Heat transport in solid target following relativistic laser-matter interaction. <i>High Energy Density Physics</i> , 2010 , 6, 268-273	1.2	3
67	Generation of MeV-Range Protons From 300 nm Solid Targets by Ultra-High-Contrast Laser Pulses. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1817-1820	1.3	3
66	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	4.4	3
65	Progress Towards a Laser Produced Relativistic Electron-Positron Pair Plasma. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012010	0.3	3
64	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	0.3	3
63	2D monochromatic x-ray imaging for beam monitoring of an x-ray free electron laser and a high-power femtosecond laser. <i>Review of Scientific Instruments</i> , 2021 , 92, 013510	1.7	3
62	Intensification of laser-produced relativistic electron beam using converging magnetic fields for ignition in fast ignition laser fusion. <i>High Energy Density Physics</i> , 2020 , 36, 100841	1.2	2
61	PIC simulation for dense high Z plasma formation with ultrashort petawatt laser including radiation processes. <i>High Energy Density Physics</i> , 2020 , 36, 100816	1.2	2

60	Monte Carlo particle collision model for qualitative analysis of neutron energy spectra from anisotropic inertial confinement fusion. <i>High Energy Density Physics</i> , 2020 , 36, 100803	1.2	2
59	Comment on "In-depth Plasma-Wave Heating of Dense Plasma Irradiated by Short Laser Pulses". <i>Physical Review Letters</i> , 2016 , 116, 159501	7.4	2
58	THz radiation from an ultrashort-laser-induced fast spark dense plasma. <i>EPJ Web of Conferences</i> , 2013 , 59, 18007	0.3	2
57	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	2.3	2
56	Low-Divergent, Energetic Electron Beams from Ultra-Thin Foils 2010 ,		2
55	Enhanced energy localization and heating in high contrast ultra-intense laser produced plasmas via novel conical micro-target design. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 022050	0.3	2
54	Proton Acceleration: New Developments in Energy Increase, Focusing and Energy Selection. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
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