

Atsushi Sunahara

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246
papers

4,006
citations

32
h-index

57
g-index

277
ext. papers

4,389
ext. citations

2.1
avg, IF

4.27
L-index

#	Paper	IF	Citations
246	Fast heating of ultrahigh-density plasma as a step towards laser fusion ignition. <i>Nature</i> , 2001 , 412, 798-802	32.4	780
245	Kilotesla magnetic field due to a capacitor-coil target driven by high power laser. <i>Scientific Reports</i> , 2013 , 3, 1170	4.9	215
244	Opacity effect on extreme ultraviolet radiation from laser-produced tin plasmas. <i>Physical Review Letters</i> , 2005 , 95, 235004	7.4	119
243	Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography). <i>Physics of Plasmas</i> , 2008 , 15, 056708	2.1	110
242	Studies of ultra-intense laser plasma interactions for fast ignition. <i>Physics of Plasmas</i> , 2000 , 7, 2014-2022	2.1	103
241	Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. <i>Applied Physics Letters</i> , 2005 , 86, 051501	3.4	93
240	Enhancing the number of high-energy electrons deposited to a compressed pellet via double cones in fast ignition. <i>Physical Review Letters</i> , 2009 , 102, 245001	7.4	77
239	Time-dependent electron thermal flux inhibition in direct-drive laser implosions. <i>Physical Review Letters</i> , 2003 , 91, 095003	7.4	71
238	Fast ignitor research at the Institute of Laser Engineering, Osaka University. <i>Physics of Plasmas</i> , 2001 , 8, 2268-2274	2.1	69
237	Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. <i>Applied Physics Letters</i> , 2005 , 87, 241503	3.4	68
236	Pure-tin microdroplets irradiated with double laser pulses for efficient and minimum-mass extreme-ultraviolet light source production. <i>Applied Physics Letters</i> , 2008 , 92, 241502	3.4	67
235	Suppression of the Rayleigh-Taylor instability due to self-radiation in a multiablation target. <i>Physical Review Letters</i> , 2004 , 92, 195001	7.4	67
234	Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. <i>Applied Physics Letters</i> , 2006 , 88, 161501	3.4	55
233	Basic and integrated studies for fast ignition. <i>Physics of Plasmas</i> , 2003 , 10, 1925-1930	2.1	55
232	Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. <i>Applied Physics Letters</i> , 2006 , 89, 151501	3.4	54
231	Simulation and design study of cryogenic cone shell target for Fast Ignition Realization Experiment projecta). <i>Physics of Plasmas</i> , 2007 , 14, 056303	2.1	53
230	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53

229	Fast ignition integrated experiments with Gekko and LFEX lasers. <i>Plasma Physics and Controlled Fusion</i> , 2011 , 53, 124029	2	46
228	Ablative Rayleigh-Taylor instability at short wavelengths observed with moiré interferometry. <i>Physical Review Letters</i> , 2002 , 88, 145003	7.4	46
227	Fast ignition realization experiment with high-contrast kilo-joule peta-watt LFEX laser and strong external magnetic field. <i>Physics of Plasmas</i> , 2016 , 23, 056308	2.1	44
226	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. <i>Nuclear Fusion</i> , 2009 , 49, 104024	3.3	41
225	Shock Hugoniot and temperature data for polystyrene obtained with quartz standard. <i>Physics of Plasmas</i> , 2009 , 16, 062702	2.1	40
224	Study of indirectly driven implosion by x-ray spectroscopic measurements. <i>Physics of Plasmas</i> , 1995 , 2, 2063-2074	2.1	39
223	Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 745, 150-163	1.2	38
222	Pre-plasma effects on core heating and enhancing heating efficiency by extended double cone for FIREX. <i>Nuclear Fusion</i> , 2011 , 51, 073022	3.3	38
221	Prepulse effects on the generation of high energy electrons in fast ignition scheme. <i>Physics of Plasmas</i> , 2010 , 17, 023106	2.1	36
220	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
219	High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics. <i>Plasma Physics and Controlled Fusion</i> , 2012 , 54, 124042	2	35
218	Fast plasma heating in a cone-attached geometry towards fusion ignition. <i>Nuclear Fusion</i> , 2004 , 44, S276-S283	3.3	35
217	Characterization of extreme ultraviolet emission using the fourth harmonic of a Nd:YAG laser. <i>Applied Physics Letters</i> , 2005 , 86, 181107	3.4	35
216	Recent studies of laser produced plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1999 , 41, A75-A97	2	34
215	Equation-of-state measurements of polyimide at pressures up to 5.8 TPa using low-density foam with laser-driven shock waves. <i>Physical Review E</i> , 2003 , 67, 056406	2.4	33
214	Modeling of radiative properties of Sn plasmas for extreme-ultraviolet source. <i>Journal of Applied Physics</i> , 2010 , 107, 113303	2.5	32
213	First observation of density profile in directly laser-driven polystyrene targets for ablative Rayleigh-Taylor instability research. <i>Physics of Plasmas</i> , 2003 , 10, 4784-4789	2.1	31
212	Experimental evidence of foam homogenization. <i>Physics of Plasmas</i> , 2012 , 19, 113105	2.1	30

211	Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. <i>Applied Physics Letters</i> , 2005 , 86, 201501	3-4	30
210	Monochromatic imaging and angular distribution measurements of extreme ultraviolet light from laser-produced Sn and SnO ₂ plasmas. <i>Applied Physics Letters</i> , 2004 , 85, 1919-1921	3-4	29
209	Suppression of Rayleigh-Taylor instability due to radiative ablation in brominated plastic targets. <i>Physics of Plasmas</i> , 2004 , 11, 2814-2822	2-1	28
208	Optimization of Extreme Ultraviolet Emission from Laser-Produced Tin Plasmas Based on Radiation Hydrodynamics Simulations. <i>Plasma and Fusion Research</i> , 2008 , 3, 043-043	0-5	27
207	Ultrahigh-contrast kilojoule-class petawatt LFEX laser using a plasma mirror 2016 , 55, 6850		25
206	Efficient extreme ultraviolet emission from one-dimensional spherical plasmas produced by multiple lasers. <i>Applied Physics Express</i> , 2014 , 7, 086202	2-4	24
205	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. <i>Physical Review E</i> , 2015 , 91, 063102	2-4	23
204	Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2008 , 92, 111503	3-4	23
203	Flash K α radiography of laser-driven solid sphere compression for fast ignition. <i>Applied Physics Letters</i> , 2016 , 108, 254101	3-4	22
202	Present status of fast ignition realization experiment and inertial fusion energy development. <i>Nuclear Fusion</i> , 2013 , 53, 104021	3-3	21
201	Petawatt-laser direct heating of uniformly imploded deuterated-polystyrene shell target. <i>Physical Review E</i> , 2005 , 71, 016403	2-4	21
200	Direct heating of a laser-imploded core by ultraintense laser-driven ions. <i>Physical Review Letters</i> , 2015 , 114, 195002	7-4	19
199	Two dimensional radiation hydrodynamic simulation for extreme ultra-violet emission from laser-produced tin plasmas. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042048	0-3	19
198	Reduction of the Rayleigh-Taylor instability growth with cocktail color irradiation. <i>Physics of Plasmas</i> , 2007 , 14, 122702	2-1	19
197	Blast-wave-sphere interaction using a laser-produced plasma: an experiment motivated by supernova 1987A. <i>Physical Review E</i> , 2001 , 64, 047402	2-4	19
196	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. <i>High Energy Density Physics</i> , 2012 , 8, 227-230	1-2	18
195	Time-resolved two-dimensional profiles of electron density and temperature of laser-produced tin plasmas for extreme-ultraviolet lithography light sources. <i>Scientific Reports</i> , 2017 , 7, 12328	4-9	17
194	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

193	Efficient multi-keV x-ray generation from a high-Z target irradiated with a clean ultra-short laser pulse. <i>Optics Express</i> , 2011 , 19, 4560-5	3.3	17
192	Fusion using fast heating of a compactly imploded CD core. <i>Physical Review Letters</i> , 2012 , 108, 155001	7.4	17
191	Experimental demonstration of laser imprint reduction using underdense foams. <i>Physics of Plasmas</i> , 2016 , 23, 042701	2.1	17
190	First demonstration of laser engagement of 1-Hz-injected flying pellets and neutron generation. <i>Scientific Reports</i> , 2013 , 3, 2561	4.9	16
189	Theoretical investigation of the spectrum and conversion efficiency of short wavelength extreme-ultraviolet light sources based on terbium plasmas. <i>Applied Physics Letters</i> , 2010 , 97, 231501	3.4	16
188	Generation of pre-formed plasma and its reduction for fast-ignition. <i>Laser and Particle Beams</i> , 2012 , 30, 95-102	0.9	16
187	Computational study of magnetic field compression by laser-driven implosion. <i>Nuclear Fusion</i> , 2015 , 55, 093028	3.3	15
186	Integrated simulation of magnetic-field-assist fast ignition laser fusion. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014045	2	15
185	Development of a collective Thomson scattering system for laser-produced tin plasmas for extreme-ultraviolet light sources. <i>Applied Physics Express</i> , 2015 , 8, 126101	2.4	15
184	Progress in indirect and direct-drive planar experiments on hydrodynamic instabilities at the ablation front. <i>Physics of Plasmas</i> , 2014 , 21, 122702	2.1	15
183	Monochromatic x-ray imaging with bent crystals for laser fusion research. <i>Review of Scientific Instruments</i> , 2001 , 72, 744-747	1.7	15
182	Atomic number Z dependence of dynamics of laser-ablated materials. <i>Fusion Engineering and Design</i> , 2010 , 85, 935-939	1.7	14
181	Fast Heating of Imploded Core with Counterbeam Configuration. <i>Physical Review Letters</i> , 2016 , 117, 055001	7.4	14
180	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. <i>Physical Review Letters</i> , 2020 , 124, 035001	7.4	13
179	Computational study of strong magnetic field generation in a nonspherical, cone-guided implosion. <i>Nuclear Fusion</i> , 2013 , 53, 063018	3.3	13
178	Temporal evolution of temperature and density profiles of a laser compressed core (invited). <i>Review of Scientific Instruments</i> , 2003 , 74, 1683-1687	1.7	13
177	Laboratory simulation of the collision of supernova 1987A with its circumstellar ring nebula. <i>Plasma Physics Reports</i> , 2001 , 27, 843-851	1.2	13
176	Rayleigh-Taylor instability growth on low-density foam targets. <i>Physics of Plasmas</i> , 2008 , 15, 092109	2.1	12

175	Target Injection and Engagement for Neutron Generation at 1 Hz. <i>Plasma and Fusion Research</i> , 2013 , 8, 1205020-1205020	0.5	12
174	A Collective Laser Thomson Scattering System for Diagnostics of Laser-Produced Plasmas for Extreme Ultraviolet Light Sources. <i>Applied Physics Express</i> , 2013 , 6, 076101	2.4	11
173	Conversion Efficiency of LPP Sources 339-370		11
172	Correlation between laser absorption and radiation conversion efficiency in laser produced tin plasma. <i>Applied Physics Letters</i> , 2015 , 107, 121103	3.4	10
171	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 653, 84-88	1.2	10
170	Characterization of Extreme UV Radiation from Laser Produced Spherical Tin Plasmas for Use in Lithography. <i>Journal of Plasma and Fusion Research</i> , 2004 , 80, 325-330		10
169	Emission of water-window soft x-rays under optically thin conditions using low-density foam targets. <i>Optics Letters</i> , 2018 , 43, 3750-3753	3	9
168	X-ray backlight measurement of preformed plasma by kJ-class petawatt LFEX laser. <i>Journal of Applied Physics</i> , 2012 , 112, 063301	2.5	9
167	Analysis of the emission spectrum of Xe and Sn 2006 ,		9
166	Computational study of implosion physics and target design for the fast ignition experiment FIREX-I. <i>European Physical Journal Special Topics</i> , 2006 , 133, 397-400		9
165	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. <i>Communications Physics</i> , 2019 , 2,	5.4	8
164	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 233506	3.4	8
163	Evolution of laser-produced Sn extreme ultraviolet source diameter for high-brightness source. <i>Applied Physics Letters</i> , 2014 , 105, 074103	3.4	8
162	Simulations of laser imprint reduction using underdense foams and its consequences on the hydrodynamic instability growth. <i>New Journal of Physics</i> , 2013 , 15, 085033	2.9	8
161	FIREX project and effects of self-generated electric and magnetic fields on electron-driven fast ignition. <i>Plasma Physics and Controlled Fusion</i> , 2010 , 52, 124047	2	8
160	Atomic modeling of the plasma EUV sources. <i>High Energy Density Physics</i> , 2009 , 5, 147-151	1.2	8
159	Direct measurement of the impulse in a magnetic thrust chamber system for laser fusion rocket. <i>Applied Physics Letters</i> , 2011 , 99, 071501	3.4	8
158	Time- and space-resolved X-ray spectroscopic measurements of hot dense plasma created with laser driven implosions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997 , 58, 585-596	2.1	8

157	Atomic modeling of the plasma EUV sources. <i>High Energy Density Physics</i> , 2007 , 3, 250-255	1.2	8
156	Asymmetric implosion of a cone-guided target irradiated by Gekko XII laser. <i>Laser and Particle Beams</i> , 2015 , 33, 367-378	0.9	7
155	Control of unsteady laser-produced plasma-flow with a multiple-coil magnetic nozzle. <i>Scientific Reports</i> , 2017 , 7, 8910	4.9	7
154	Numerical evaluation of a 13.5-nm high-brightness microplasma extreme ultraviolet source. <i>Journal of Applied Physics</i> , 2015 , 118, 193301	2.5	7
153	Measurement of preheating due to radiation and nonlocal electron heat transport in laser-irradiated targets. <i>Physics of Plasmas</i> , 2010 , 17, 032702	2.1	7
152	Numerical study of the advanced target design for FIREX-I. <i>Nuclear Fusion</i> , 2009 , 49, 075028	3.3	7
151	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets 2005 ,		7
150	Target design for ignition and high gain in direct drive ICF. <i>Fusion Engineering and Design</i> , 1999 , 44, 105-110		7
149	Numerical analysis of pulsed magnetic field diffusion dynamics in gold cone target. <i>Physics of Plasmas</i> , 2018 , 25, 094505	2.1	7
148	Characterization of material ablation driven by laser generated intense extreme ultraviolet light. <i>Applied Physics Letters</i> , 2015 , 107, 114101	3.4	6
147	Characteristics of the soft X-ray emission from laser-produced highly charged platinum plasmas. <i>Applied Physics Express</i> , 2016 , 9, 066201	2.4	6
146	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
145	Density and x-ray emission profile relationships in highly ionized high-Z laser-produced plasmas. <i>Applied Physics Letters</i> , 2015 , 106, 121109	3.4	6
144	Fast electron beam guiding for effective core heating. <i>EPJ Web of Conferences</i> , 2013 , 59, 03010	0.3	6
143	Laboratory experiments on cluster/aerosol formation by colliding ablation plumes. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 032033	0.3	6
142	Advanced laser-produced EUV light source for HVM with conversion efficiency of 5-7% and B-field mitigation of ions 2008 ,		6
141	EUV light source by high power laser. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042047	0.3	6
140	Energy spectra and charge states of debris emitted from laser-produced minimum mass tin plasmas 2006 , 6151, 1051		6

139	The formation of high-density core plasma in non-spherical implosion using high-resolution two-dimensional integrated implosion code. <i>Journal of Plasma Physics</i> , 2006 , 72, 791	2.7	6
138	Suppression of the Rayleigh-Taylor instability and its implication for the impact ignition. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, B245-B254	2	6
137	Intense water-window soft x-ray emission by spectral control using dual laser pulses. <i>Optics Express</i> , 2018 , 26, 27748-27756	3.3	6
136	Hi-rep. Counter-Illumination Fast Ignition Scheme Fusion. <i>Plasma and Fusion Research</i> , 2013 , 8, 3404047-3404047	3.5	6
135	Investigation of the ionization balance of bismuth-to-tin plasmas for the extreme ultraviolet light source based on a computer-generated collisional radiative model. <i>AIP Advances</i> , 2016 , 6, 105002	1.5	6
134	Efficient laser acceleration of deuteron ions through optimization of pre-plasma formation for neutron source development. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 025002	2	6
133	Compression and electron beam heating of solid target under the external magnetic field for fast ignition. <i>Nuclear Fusion</i> , 2017 , 57, 086009	3.3	5
132	Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma. <i>High Energy Density Physics</i> , 2013 , 9, 435-438	1.2	5
131	Conceptual design of fast-ignition laser fusion reactor FALCON-D. <i>Nuclear Fusion</i> , 2009 , 49, 075006	3.3	5
130	Effects of long rarefied plasma on fast electron generation for FIREX-I targets. <i>Laser and Particle Beams</i> , 2012 , 30, 103-109	0.9	5
129	The atomic model of the Sn plasmas for the EUV source. <i>Journal of Physics: Conference Series</i> , 2009 , 163, 012107	0.3	5
128	Estimation of emission efficiency for laser-produced EUV plasmas 2004 ,		5
127	Properties of EUV emissions from laser-produced tin plasmas 2004 , 5374, 912		5
126	Time- and space-resolved X-ray spectroscopy for observation of the hot compressed core region in a laser driven implosion. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000 , 65, 393-404	2.1	5
125	2D simulation of hydrodynamic instability in ICF stagnation phase. <i>Fusion Engineering and Design</i> , 1999 , 44, 163-169	1.7	5
124	Enhancement of water-window soft x-ray emission from laser-produced Au plasma under low-pressure nitrogen atmosphere. <i>Optics Letters</i> , 2019 , 44, 1439-1442	3	5
123	Material Dependence on Plasma Shielding Induced by Laser Ablation. <i>Plasma and Fusion Research</i> , 2012 , 7, 2405065-2405065	0.5	5
122	Energy distribution of fast electrons accelerated by high intensity laser pulse depending on laser pulse duration. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012102	0.3	5

121	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
120	Spectroscopic observation of ablation plasma generated with a laser-driven extreme ultraviolet light source. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 119, 421-425	1.9	4
119	The Measurement of Plasma Structure in a Magnetic Thrust Chamber. <i>Plasma and Fusion Research</i> , 2016 , 11, 3406012-3406012	0.5	4
118	Electron beam guiding by strong longitudinal magnetic fields. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012041	0.3	4
117	Influence of short pulse duration of carbon dioxide lasers on extreme ultraviolet emission from laser-produced plasmas. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 070311	1.4	4
116	Whispering Gallery Effect in Relativistic Optics. <i>JETP Letters</i> , 2018 , 107, 351-354	1.2	4
115	Multilayered polycrystallization in single-crystal YSZ by laser-shock compression. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 325305	3	4
114	Laser scattered images observed from carbon plasma stagnation and following molecular formation. <i>Applied Physics Letters</i> , 2014 , 104, 244105	3.4	4
113	Effect of Magnetic Field Strength on a Magnetic Thrust Chamber System. <i>Journal of Propulsion and Power</i> , 2014 , 30, 54-61	1.8	4
112	Design of a cone target for fast ignition. <i>EPJ Web of Conferences</i> , 2013 , 59, 03009	0.3	4
111	Carbon Plume Stagnation: Platform for Vapor Shield Study. <i>Fusion Science and Technology</i> , 2011 , 60, 329-333	1.1	4
110	Integrated simulations of core heating in cone-guiding fast ignition, FIREX-I. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 022040	0.3	4
109	Implosion experiments of gas-filled plastic-shell targets with [ell] = 1 drive nonuniformity at the Gekko-XII glass laser. <i>Laser and Particle Beams</i> , 2001 , 19, 267-284	0.9	4
108	An optimum design of implosion with external magnetic field for electron beam guiding in fast ignition. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012041	0.3	4
107	Plasma structure and energy dependence in a magnetic thrust chamber system. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012071	0.3	4
106	Development of 4.5 keV monochromatic X-ray radiography using the high-energy, picosecond LFEX laser. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012112	0.3	4
105	Optimized highly charged ion production for strong soft x-ray sources obeying a quasi-Moseley law. <i>AIP Advances</i> , 2019 , 9, 115315	1.5	4
104	Improvement in the heating efficiency of fast ignition inertial confinement fusion through suppression of the preformed plasma. <i>Nuclear Fusion</i> , 2017 , 57, 066022	3.3	3

103	Validation of thermal conductivity in magnetized plasmas using particle-in-cell simulations. <i>Physics of Plasmas</i> , 2017 , 24, 042117	2.1	3
102	Enhancement of fast electron energy deposition by external magnetic fields. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012033	0.3	3
101	Extremely high-pressure generation and compression with laser implosion plasmas. <i>Applied Physics Letters</i> , 2013 , 102, 183501	3.4	3
100	Effects of CH foam preplasma on fast ignition. <i>Laser and Particle Beams</i> , 2012 , 30, 189-197	0.9	3
99	Laser-produced plasmas as unique x-ray sources for industry and astrophysics. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 012001	0.3	3
98	Effects of pre-formed plasma inside a guiding cone in fast ignition scheme. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 022079	0.3	3
97	Simulation studies for core heating properties in FIREX-I. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 022054	0.3	3
96	Optimum laser-produced plasma for extreme ultraviolet light source. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042049	0.3	3
95	Detailed atomic modeling of Sn plasmas for the EUV source. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 042062	0.3	3
94	Dependence of EUV emission properties on laser wavelength 2004 ,		3
93	Influence of Residual Gas on the Life of Cryogenic Target and Trajectory of Injected Targets. <i>Fusion Science and Technology</i> , 2000 , 38, 28-33		3
92	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
91	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
90	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
89	Electron temperature and soft x-ray intensity scaling in laser heavy element plasma interaction. <i>AIP Advances</i> , 2020 , 10, 065306	1.5	2
88	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
87	Implosion and heating experiments of fast ignition targets by Gekko-XII and LFEX lasers. <i>EPJ Web of Conferences</i> , 2013 , 59, 01008	0.3	2
86	Note: development of a volume-limited dot target for a high brightness extreme ultraviolet microplasma source. <i>Review of Scientific Instruments</i> , 2014 , 85, 116104	1.7	2

85	Hot electron spectra in hole-cone shell targets and a new proposal of the target for fast ignition in laser fusion. <i>Physica Scripta</i> , 2014 , T161, 014025	2.6	2
84	Hot Electron Spectra in Plain, Cone and Integrated Targets for FIREX-I using Electron Spectrometer. <i>Plasma and Fusion Research</i> , 2013 , 8, 2404125-2404125	0.5	2
83	Atomic processes in the LPP and LA-DPP EUV sources 2009 ,		2
82	Effects of Multiple Shock and Thermal Conduction on Mixing Layer Evolution in a Stagnating High-Gain Inertial Confinement Fusion Target. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 6265-6272	1.4	2
81	Non-local electron transport in laser-produced plasmas. <i>European Physical Journal Special Topics</i> , 2006 , 133, 193-195		2
80	Present Status and Future Prospects of Laser Fusion Research at ILE Osaka University. <i>Plasma Science and Technology</i> , 2004 , 6, 2179-2184	1.5	2
79	Simulations on laser ablation and its applications 2004 ,		2
78	Theoretical simulation of extreme UV radiation source for lithography 2004 , 5374, 405		2
77	Model experiments of fast ignition with coaxial high-power laser beams 2001 ,		2
76	Numerical demonstration of high-Z doping scheme on ignition-relevant scale implosion. <i>Physics of Plasmas</i> , 2016 , 23, 122705	2.1	2
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