

# Shigeo Kawata

## List of Publications by Year in descending order

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248  
papers

2,352  
citations

218677

26  
h-index

302126

39  
g-index

248  
all docs

248  
docs citations

248  
times ranked

1167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Code O-SUKI-N 3D: Upgraded direct-drive fuel target 3D implosion code in heavy ion inertial fusion. Computer Physics Communications, 2022, 272, 108223.	7.5	3
2	Dynamic mitigation of the tearing mode instability in a collisionless current sheet. Scientific Reports, 2021, 11, 11651.	3.3	2
3	Simulations of laser plasma instabilities using a particle-mesh method. Plasma Physics and Controlled Fusion, 2021, 63, 095005.	2.1	3
4	Mitigating parametric instabilities in plasmas by sunlight-like lasers. Matter and Radiation at Extremes, 2021, 6, .	3.9	26
5	Direct-drive heavy ion beam inertial confinement fusion: a review, toward our future energy source. Advances in Physics: X, 2021, 6, .	4.1	9
6	Fuel Target Implosion Uniformity in Heavy Ion Inertial Fusion. , 2021, , .		0
7	Enhancement of the conversion efficiency of soft x-ray by colliding gold plasmas. Physics of Plasmas, 2021, 28, .	1.9	3
8	Uniformity improvement of fuel target implosion by phase control in heavy ion inertial fusion. High Energy Density Physics, 2020, 35, 100735.	1.5	1
9	Fuel pellet injection into heavy-ion inertial fusion reactor. High Energy Density Physics, 2020, 35, 100741.	1.5	3
10	Alignment of swift cluster ions in high-energy-density plasma. High Energy Density Physics, 2020, 35, 100740.	1.5	0
11	Control of intense-laser ion acceleration. High Energy Density Physics, 2020, 36, 100799.	1.5	1
12	Plasma instability inside solenoid with laser ion source. Review of Scientific Instruments, 2020, 91, 053303.	1.3	5
13	Development of fuel target implosion simulation system in heavy ion inertial confinement fusion. High Energy Density Physics, 2020, 34, 100748.	1.5	3
14	Phase control of a z -current-driven plasma column. Physical Review E, 2020, 101, 041201.	2.1	2
15	Relativistic mid-wavelength infrared pulses generated in intense-laser mass-limited target interactions. New Journal of Physics, 2020, 22, 093007.	2.9	1
16	Peculiar behavior of Si cluster ions in a high-energy-density solid Al plasma. Physical Review E, 2019, 99, 011201.	2.1	6
17	Non-uniformity smoothing of direct-driven fuel target implosion by phase control in heavy ion inertial fusion. Scientific Reports, 2019, 9, 6659.	3.3	10
18	Dynamic stabilization of plasma instability. High Power Laser Science and Engineering, 2019, 7, .	4.6	1

#	ARTICLE	IF	CITATIONS
19	Code O-SUKI: Simulation of direct-drive fuel target implosion in heavy ion inertial fusion. Computer Physics Communications, 2019, 240, 83-100.	7.5	10
20	Fuel Pellet Alignment in Heavy-Ion Inertial Fusion Reactor. IEEE Transactions on Plasma Science, 2019, 47, 2-8.	1.3	7
21	Dynamic stabilization of filamentation instability. Physics of Plasmas, 2018, 25, .	1.9	11
22	Characteristic investigation of <sup>96</sup> Zr oxide. AIP Conference Proceedings, 2018, , .	0.4	1
23	High-energy-density plasma jet generated by laser-cone interaction. Physics of Plasmas, 2018, 25, 042706.	1.9	3
24	Study and evaluation of a plant form modeling system based on the Lindenmayer system. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 09, 1840008.	1.4	1
25	Computer-Assisted Parallel Program Generation. , 2018, , 4583-4593.		0
26	Dense pair plasma generation by two laser pulses colliding in a cylinder channel. Chinese Physics B, 2017, 26, 035202.	1.4	6
27	Effect of bromine-dopant on radiation-driven Rayleigh-Taylor instability in plastic foil. Plasma Physics and Controlled Fusion, 2017, 59, 105012.	2.1	3
28	Direct-driven target implosion in heavy ion fusion. Journal of Physics: Conference Series, 2016, 688, 012078.	0.4	3
29	Implosion uniformity improvement of fuel target in heavy ion fusion. Journal of Physics: Conference Series, 2016, 717, 012028.	0.4	0
30	Controllable laser ion beam generation. Journal of Physics: Conference Series, 2016, 717, 012065.	0.4	2
31	Illumination non-uniformity of spirally wobbling beam in heavy ion fusion. Journal of Physics: Conference Series, 2016, 688, 012115.	0.4	0
32	Ion Acceleration by Ultra-intense Laser Pulse Interacting with Double-layer Near-critical Density Plasma. Journal of Physics: Conference Series, 2016, 688, 012021.	0.4	0
33	Collimation of laser-produced proton beam. Journal of Physics: Conference Series, 2016, 688, 012061.	0.4	1
34	Enhanced electron-positron pair production by ultra intense laser irradiating a compound target. Plasma Physics and Controlled Fusion, 2016, 58, 125007.	2.1	16
35	Control of laser absorbing efficiency and proton quality by a specific double target. New Journal of Physics, 2016, 18, 083024.	2.9	0
36	Researches on a reactor core in heavy ion inertial fusion. Laser and Particle Beams, 2016, 34, 705-713.	1.0	2

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37	Constructive spin-orbital angular momentum coupling can twist materials to create spiral structures in optical vortex illumination. Applied Physics Letters, 2016, 108, .	3.3	54
38	Calculating the radiation characteristics of accelerated electrons in laser-plasma interactions. Physics of Plasmas, 2016, 23, 033113.	1.9	4
39	Ion beam control in laser plasma interaction. Journal of Physics: Conference Series, 2016, 688, 012045.	0.4	0
40	Control of fuel target implosion non-uniformity in heavy ion inertial fusion. Laser and Particle Beams, 2016, 34, 729-734.	1.0	2
41	Target implosion uniformity in heavy-ion fusion. Laser and Particle Beams, 2016, 34, 735-741.	1.0	4
42	Uniform fuel target implosion in heavy ion inertial fusion. Journal of Physics: Conference Series, 2016, 717, 012029.	0.4	0
43	Review of heavy-ion inertial fusion physics. Matter and Radiation at Extremes, 2016, 1, 89-113.	3.9	57
44	Controllable Laser Ion Acceleration. Journal of Physics: Conference Series, 2016, 691, 012021.	0.4	4
45	Experimental Verification of Lens-less Fourier Digital Holography based on Rayleigh-Sommerfeld Diffraction Integral. , 2016, , .		0
46	Detection of an Internal Object by Parallel Scanning Computed Thermal Radiation Tomography with Heating. , 2016, , .		0
47	Uniformity of fuel target implosion in heavy ion fusion. Laser and Particle Beams, 2015, 33, 591-599.	1.0	1
48	Electron self-injection into the phase of a wake excited by a driver laser in a nonuniform density target. Physics of Plasmas, 2015, 22, .	1.9	3
49	High-flux low-divergence positron beam generation from ultra-intense laser irradiated a tapered hollow target. Physics of Plasmas, 2015, 22, .	1.9	17
50	High-quality electron beams generation in a linear upramp density target. Europhysics Letters, 2015, 110, 35002.	2.0	0
51	Robust dynamic mitigation of instabilities. Physics of Plasmas, 2015, 22, 042106.	1.9	14
52	Design of binary data page with a phase mask for high-density holographic recording. Proceedings of SPIE, 2015, , .	0.8	1
53	Enhanced electron injection in laser-driven bubble acceleration by ultra-intense laser irradiating foil-gas targets. Physics of Plasmas, 2015, 22, 083110.	1.9	3
54	Bubble shape and electromagnetic field in the nonlinear regime for laser wakefield acceleration. Physics of Plasmas, 2015, 22, .	1.9	6

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55	Shift Multiplex Recording of Four-Valued Phase Data Pages by Volume Retardagraphy. Applied Sciences (Switzerland), 2014, 4, 158-170.	2.5	1
56	Controllable high-quality electron beam generation by phase slippage effect in layered targets. Physics of Plasmas, 2014, 21, 113106.	1.9	4
57	Nonuniformity mitigation of beam illumination in heavy ion inertial fusion. Physica Scripta, 2014, 89, 088001.	2.5	3
58	Peculiarities of laser phase behavior associated with the accelerated electron in a chirped laser pulse. Physics of Plasmas, 2014, 21, .	1.9	4
59	Laser ion acceleration control. , 2014, , .		0
60	Dependence of electron trapping on bubble geometry in laser-plasma wakefield acceleration. Physics of Plasmas, 2014, 21, .	1.9	5
61	Multi-Stage Ion Acceleration in Laser Plasma Interaction. , 2014, , .		2
62	Stable long range proton acceleration driven by intense laser pulse with underdense plasmas. Physics of Plasmas, 2014, 21, .	1.9	19
63	Wobblers and Rayleighâ€Taylor instability mitigation in HIF target implosion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 733, 211-215.	1.6	6
64	High-Quality Ion Beam Generation in Laser Plasma Interaction. , 2014, , .		0
65	An efficient and interactive problem solving environment (PSE) for biomolecular networks visualization. , 2014, , .		0
66	Controllability of intense-laser ion acceleration. High Power Laser Science and Engineering, 2014, 2, .	4.6	7
67	Velocity Filtering Method for Moving Particles Based on Doppler Phase-Shifting Digital Holography. , 2014, , .		0
68	Spirally Wobbling Beam Illumination Nonuniformity in Heavy Ion Inertial Fusion. , 2014, , .		0
69	Enhancement of proton acceleration field in laser double-layer target interaction. Physics of Plasmas, 2013, 20, 070703.	1.9	6
70	Efficient ion generation in laser-foil interaction. EPJ Web of Conferences, 2013, 59, 17012.	0.3	0
71	Laser-plasma booster for ion post acceleration. EPJ Web of Conferences, 2013, 59, 17013.	0.3	2
72	Laser ion acceleration toward future ion beam cancer therapy - Numerical simulation study -. Laser Therapy, 2013, 22, 103-114.	0.3	19

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73	Direct drive fuel target optimization in HIF. EPJ Web of Conferences, 2013, 59, 09001.	0.3	0
74	Spiral wobbling beam illumination uniformity in HIF fuel target implosion. EPJ Web of Conferences, 2013, 59, 09002.	0.3	0
75	Wobbling Heavy Ion Beam Illumination in Heavy Ion Inertial Fusion. Plasma and Fusion Research, 2013, 8, 3404048-3404048.	0.7	5
76	Proposal of Digital Holographic Reconstruction Method for Fourier Vector Wave Memory. , 2013, , .		0
77	KVM Combined with Hadoop Application based-on CPSE-Bio. Journal of Next Generation Information Technology, 2013, 4, 160-166.	0.2	0
78	BNVC: A Web-Oriented Biomolecular Network Visualization Platform. Journal of Next Generation Information Technology, 2013, 4, 151-159.	0.2	0
79	Quasi-monoenergetic Tens-of-MeV Proton Beams by a Laser-Illuminated Funnel-Like Target. Chinese Physics Letters, 2012, 29, 035202.	3.3	6
80	Upper limit power for self-guided propagation of intense lasers in plasma. Applied Physics Letters, 2012, 101, .	3.3	9
81	Electron bow-wave injection of electrons in laser-driven bubble acceleration. Physical Review E, 2012, 85, 046403.	2.1	17
82	Dual-channel polarization holography: a technique for recording two complex amplitude components of a vector wave. Optics Letters, 2012, 37, 4528.	3.3	30
83	Dynamic mitigation of instabilities. Physics of Plasmas, 2012, 19, 024503.	1.9	33
84	Towards Sub-TeV electron beams driven by ultra-short, ultra-intense laser pulses. Journal of Plasma Physics, 2012, 78, 461-468.	2.1	4
85	Large quantity ion beam generation by persistent Coulomb explosion in a near-critical density plasma channel. Physics of Plasmas, 2012, 19, 092308.	1.9	5
86	Mechanism of electron acceleration by chirped laser pulse. Applied Physics Letters, 2012, 100, .	3.3	26
87	Short pulse laser interaction with micro-structured targets: simulations of laser absorption and ion acceleration. New Journal of Physics, 2011, 13, 053028.	2.9	94
88	Simultaneous two-wavelength Doppler phase-shifting digital holography. Applied Optics, 2011, 50, H237.	2.1	44
89	Efficient terahertz emission by mid-infrared laser pulses from gas targets. Optics Letters, 2011, 36, 2608.	3.3	50
90	Direct laser acceleration of electron by an ultra intense and short-pulsed laser in under-dense plasma. Physics of Plasmas, 2011, 18, .	1.9	20

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91	Simulations of short pulses laser interaction with targets having a submicron surface structure: energy absorption and ion acceleration. Proceedings of SPIE, 2011, , .	0.8	0
92	Steady plasma channel formation and particle acceleration in an interaction of an ultraintense laser with near-critical density plasma. Physics of Plasmas, 2011, 18, 030704.	1.9	8
93	Soliton reflection in a plasma with trapped electrons: The effect of dust concentration. Physica D: Nonlinear Phenomena, 2011, 240, 310-316.	2.8	11
94	Laser guiding plasma channel formation criterion in highly relativistic regime. Applied Physics Letters, 2011, 99, 241501.	3.3	4
95	Towards gigawatt terahertz emission by few-cycle laser pulses. Physics of Plasmas, 2011, 18, .	1.9	43
96	Collimated GeV proton beam generated by the interaction of ultra-intense laser with a uniform near-critical underdense plasma. Europhysics Letters, 2011, 95, 35001.	2.0	5
97	Rayleigh-Taylor instability growth control by an oscillating acceleration in heavy ion inertial fusion. Journal of Physics: Conference Series, 2010, 244, 022003.	0.4	0
98	Efficient high-quality ion beam generation in laser-foil interaction. Proceedings of SPIE, 2010, , .	0.8	0
99	Code OK3 " An upgraded version of OK2 with beam wobbling function. Computer Physics Communications, 2010, 181, 1332-1333.	7.5	23
100	Acceleration of Protons from a Double-Layer or Multi-Ion-Mixed Foil Irradiated by Ultraintense Lasers. Plasma Science and Technology, 2010, 12, 277-283.	1.5	2
101	Collimated proton beam generation from ultraintense laser-irradiated hole target. Laser and Particle Beams, 2010, 28, 319-325.	1.0	14
102	Investigations on terahertz radiation generated by two superposed femtosecond laser pulses. Journal of Applied Physics, 2010, 107, .	2.5	57
103	Monoenergetic electron bunches generated from thin solid foils irradiated by ultrashort, ultraintense circularly polarized lasers. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	13
104	Radiative reaction effect on electron dynamics in an ultra intense laser field. Laser and Particle Beams, 2010, 28, 83-90.	1.0	8
105	Efficient energy conversion from laser to proton beam in a laser-foil interaction. Physics of Plasmas, 2010, 17, .	1.9	19
106	Simulations of vacuum laser acceleration: Hidden errors from particle's initial positions. Optics Express, 2010, 18, 14144.	3.4	4
107	A meta Problem Solving Environment (PSE). , 2010, , .		2
108	Efficient laser energy conversion to ions in a laser-foil interaction. , 2009, , .		0

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109	Ion acceleration by short high intensity laser pulse in small target sets. Laser and Particle Beams, 2009, 27, 449-457.	1.0	13
110	Study on target structure for direct-indirect hybrid implosion mode in heavy ion inertial fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 165-168.	1.6	3
111	Robust fuel target in heavy ion inertial fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 152-156.	1.6	22
112	Activities on heavy ion inertial fusion and beam-driven high energy density science in Japan. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 1-5.	1.6	14
113	Wakefield driven by Gaussian (1,0) mode laser pulse and laser-plasma electron acceleration. Applied Physics Letters, 2009, 95, 091501.	3.3	2
114	Efficient Production of Proton Beam in Laser-Illuminated Tailored Microstructured Target. IEEE Transactions on Plasma Science, 2009, 37, 481-486.	1.3	0
115	Direct-indirect hybrid mode implosion in heavy ion inertial fusion. Journal of Physics: Conference Series, 2008, 112, 032028.	0.4	1
116	Collimated Ion Beam by a Laser-Illuminated Tailored Hole Target. IEEE Transactions on Plasma Science, 2008, 36, 363-369.	1.3	3
117	Reflection of Solitons at Critical Density of Negative Ions: Contribution of Thermal and Gyrotory Motions of Ions. IEEE Transactions on Plasma Science, 2008, 36, 738-747.	1.3	3
118	Optimum injection momentum for electrons in vacuum laser acceleration. Europhysics Letters, 2008, 82, 64001.	2.0	2
119	A Scalable Linkage Method for Large Scale Event-Data Processing. , 2008, , .		0
120	Laser-produced collimated proton beam by a tailored thin foil target. , 2008, , .		0
121	Enhanced laser ion acceleration from mass-limited targets. Laser and Particle Beams, 2008, 26, 225-234.	1.0	54
122	PIC Simulations Of Ion Acceleration By Linearly And Circularly Polarized Laser Pulses. AIP Conference Proceedings, 2008, , .	0.4	0
123	Improvement of energy-conversion efficiency from laser to proton beam in a laser-foil interaction. Physical Review E, 2008, 78, 046401.	2.1	67
124	Collimated ion beam by a tailored target illuminated by an intense short pulse laser. Journal of Physics: Conference Series, 2008, 112, 042044.	0.4	2
125	Half-mini beta optics with a bunch rotation for warm dense matter science facility in KEK. , 2007, , .		1
126	Phase velocity of the TEM (1,0)+TEM (0,1) mode laser and electron accelerations in vacuum. Journal of Applied Physics, 2007, 101, 073111.	2.5	3



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127	Soliton propagation in an inhomogeneous plasma at critical density of negative ions: Effects of gyratory and thermal motions of ions. Physics of Plasmas, 2007, 14, 102110.	1.9	19
128	Particle dynamics at stagnation point during longitudinal bunch compression of high current beams. , 2007, , .		0
129	Collimated Ion Beam by a Laser-Illuminated Tailored Target. , 2007, , .		0
130	Robustness of a tailored hole target in laser-produced collimated proton beam generation. Journal of Applied Physics, 2007, 101, 113305.	2.5	28
131	Numerical solver with cip method for Fokker Planck equation of stochastic cooling. , 2007, , .		0
132	Proton beam quality improvement by a tailored target illuminated by an intense short-pulse laser. , 2007, , .		0
133	Bifurcating energy-angular spectrum of electrons accelerated by intense laser pulse. Laser and Particle Beams, 2007, 25, 365-370.	1.0	2
134	Collimated ion beam by a laser-illuminated tailored target. , 2007, , .		0
135	A Distributed Education-Support PSE System. , 2007, , .		9
136	Robust heavy-ion-beam illumination in direct-driven heavy-ion inertial fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 327-331.	1.6	3
137	Studies on heavy ion fusion and high energy density physics in Japan. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 21-29.	1.6	10
138	Beam dynamics during longitudinal bunch compression of high-current heavy-ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 103-109.	1.6	9
139	Directâ€“indirect mixed implosion mode in heavy ion inertial fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 332-336.	1.6	9
140	High-energy-density physics researches based on heavy ion accelerator and pulse power devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 577, 298-302.	1.6	14
141	Generation of High-Density Atto-Second Electron Bunch by Intense Short Pulse Laser. IEEJ Transactions on Fundamentals and Materials, 2007, 127, 199-204.	0.2	0
142	Mathematical Modeling Support in a Distributed Problem Solving Environment for Scientific Computing. , 2006, , .		5
143	Design and Implementation of NAREGI Problem Solving Environment for Large-Scale Science Grid. , 2006, , .		2
144	Scientific Simulation Execution Support on a Closed Distributed Computer Environment. , 2006, , .		3

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145	Heavy ion beam interaction with a direct-driven pellet. European Physical Journal Special Topics, 2006, 133, 743-747.	0.2	2
146	High energy electron bunch generation by using a plasma separator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 558, 260-264.	1.6	0
147	Beam dynamics simulation during final bunching and transport for heavy ion inertial fusion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 558, 122-126.	1.6	9
148	Production of low-emittance MeV protons by localized electrons. Laser Physics, 2006, 16, 248-251.	1.2	2
149	Pic simulations of femtosecond interactions with mass-limited targets. European Physical Journal D, 2006, 56, B515-B521.	0.4	32
150	Suppression of high-energy proton beam divergence in laser-foil interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 558, 265-270.	1.6	1
151	Effect of a laser prepulse on fast ion generation in the interaction of ultra-short intense laser pulses with a limited-mass foil target. Plasma Physics and Controlled Fusion, 2006, 48, 1605-1619.	2.1	64
152	High-energy-density attosecond electron beam production by intense short-pulse laser with a plasma separator. Laser and Particle Beams, 2006, 24, 321-327.	1.0	21
153	Direct-indirect mixture implosion in heavy ion fusion. Laser and Particle Beams, 2006, 24, 359-369.	1.0	18
154	Ion focusing effect of electron cloud produced by laser-plasma interaction. Laser and Particle Beams, 2006, 24, 157-161.	1.0	1
155	Control of proton beam divergence in intense-laser foil-plasma interaction. European Physical Journal Special Topics, 2006, 133, 549-551.	0.2	1
156	Energetic electron bunch generation by an intense laser pulse. European Physical Journal Special Topics, 2006, 133, 1131-1133.	0.2	0
157	Emittance growth and instability induced by space charge effect during final beam bunching in HIF accelerator system. European Physical Journal Special Topics, 2006, 133, 749-751.	0.2	0
158	Final beam transport in HIF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 98-103.	1.6	9
159	Bunch compression in a ring for future RIKEN projects. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 393-397.	1.6	1
160	HIB illumination on a target in HIF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 406-411.	1.6	3
161	Beam dynamics and emittance growth during final beam bunching in HIF driver systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 262-267.	1.6	3
162	Enhancement of EUV emission from a liquid microjet target by use of dual laser pulses. , 2005, , .		0

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163	Generation of a microelectron beam by an intense short pulse laser in the TEM(1, 0) + TEM(0, 1) mode in vacuum. Journal Physics D: Applied Physics, 2005, 38, 1665-1673.	2.8	17
164	Suppression of transverse proton beam divergence by controlled electron cloud in laser-plasma interactions. Physics of Plasmas, 2005, 12, 073104.	1.9	54
165	Efficient soft x-ray emission source at 13.5 nm by use of a femtosecond-laser-produced Li-based microplasma. Applied Physics Letters, 2005, 86, 231502.	3.3	11
166	Robust heavy-ion-beam illumination against a direct-drive-pellet displacement in inertial confinement fusion. Physics of Plasmas, 2005, 12, 122702.	1.9	27
167	Generation of Compressed GeV-Electron Bunch by Intense Short Pulse Laser. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
168	High-energy proton generation and suppression of transverse proton divergence by localized electrons in a laser-foil interaction. Physical Review E, 2005, 71, 056403.	2.1	24
169	Selected momentum correction using induction-voltage modulator for low-flux ion beams. Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	0
170	Electron bunch acceleration and trapping by ponderomotive force of an intense short-pulse laser. Laser and Particle Beams, 2005, 23, .	1.0	33
171	Instability and Emittance Growth in High-Current Heavy Ion Beam Bunching. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
172	HIB Irradiation on a Direct-Driven Fuel Target in Heavy Ion Fusion. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
173	Low Emittance Proton Beam Generation in Laser Foil Interaction. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
174	Electron Bunch Acceleration by an Intense Laser Pulse with a Plasma Separator. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 247-253.	0.2	1
175	Beam Pulse Duration Dependence on Target Implosion in Heavy Ion Fusion. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 515-520.	0.2	4
176	32-Beam irradiation on a spherical heavy ion fusion pellet. Journal Physics D: Applied Physics, 2004, 37, 2392-2394.	2.8	4
177	Laser electron acceleration by a plasma separator. Physics of Plasmas, 2004, 11, 4878-4881.	1.9	13
178	Numerical studies on the ultrashort pulse K $\alpha$ emission sources based on femtosecond laser-target interactions. Laser and Particle Beams, 2004, 22, 147-156.	1.0	16
179	A problem-solving environment (PSE) for distributed computing. International Journal of High Performance Computing and Networking, 2004, 1, 223.	0.4	6
180	Code OK-Simulation of multi-beam irradiation on a spherical target in heavy ion fusion. Computer Physics Communications, 2004, 157, 160-172.	7.5	24

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181	Code OK2â€™A simulation code of ion-beam illumination on an arbitrary shape and structure target. Computer Physics Communications, 2004, 161, 143-150.	7.5	13
182	Electron bunch trapping and compression by an intense focused pulse laser. Physical Review E, 2004, 69, 056502.	2.1	37
183	Heavy-ion beam illumination on a direct-driven pellet in heavy-ion inertial fusion. Physical Review Special Topics: Accelerators and Beams, 2004, 7, .	1.8	22
184	<title>High-energy particle acceleration by high-power laser</title>. , 2004, , .		0
185	Heavy Ion Beam Illumination Uniformity in Heavy Ion Beam Inertial Confinement Fusion. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 85-90.	0.2	1
186	Micro Electron Bunch Acceleration and Trapping by Intense Short Laser Pulse in Vacuum. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 461-466.	0.2	1
187	Electron bunch acceleration and trapping by the ponderomotive force of an intense short-pulse laser. Physics of Plasmas, 2003, 10, 4605-4608.	1.9	35
188	Heavy ion beam irradiation non-uniformity in inertial fusion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 315, 372-377.	2.1	13
189	Conducting versus insulating walls in a heavy ion reaction chamber. Laser and Particle Beams, 2003, 21, 41-46.	1.0	2
190	Heavy ion beam final transport through an insulator guide in heavy ion fusion. Laser and Particle Beams, 2003, 21, 27-32.	1.0	13
191	Micro electron bunch generation by intense short pulse laser. Journal Physics D: Applied Physics, 2003, 36, 2878-2882.	2.8	9
192	Origin of protons accelerated by an intense laser and the dependence of their energy on the plasma density. Physical Review E, 2003, 67, 026403.	2.1	49
193	Beam Final Transport and Direct-Drive Pellet Implosion in Heavy-Ion Fusion. Fusion Science and Technology, 2003, 43, 282-289.	1.1	13
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