

# Shigeo Kawata

## List of Publications by Year in descending order

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248  
papers

2,352  
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218677

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all docs

248  
docs citations

248  
times ranked

1167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short pulse laser interaction with micro-structured targets: simulations of laser absorption and ion acceleration. <i>New Journal of Physics</i> , 2011, 13, 053028.	2.9	94
2	Improvement of energy-conversion efficiency from laser to proton beam in a laser-foil interaction. <i>Physical Review E</i> , 2008, 78, 046401.	2.1	67
3	Effect of a laser prepulse on fast ion generation in the interaction of ultra-short intense laser pulses with a limited-mass foil target. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 1605-1619.	2.1	64
4	Effect of Nonuniform Implosion of Target on Fusion Parameters. <i>Journal of the Physical Society of Japan</i> , 1984, 53, 3416-3426.	1.6	59
5	Investigations on terahertz radiation generated by two superposed femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	57
6	Review of heavy-ion inertial fusion physics. <i>Matter and Radiation at Extremes</i> , 2016, 1, 89-113.	3.9	57
7	Suppression of transverse proton beam divergence by controlled electron cloud in laser-plasma interactions. <i>Physics of Plasmas</i> , 2005, 12, 073104.	1.9	54
8	Enhanced laser ion acceleration from mass-limited targets. <i>Laser and Particle Beams</i> , 2008, 26, 225-234.	1.0	54
9	Constructive spin-orbital angular momentum coupling can twist materials to create spiral structures in optical vortex illumination. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	54
10	Inverse-bremsstrahlung electron acceleration. <i>Physical Review Letters</i> , 1991, 66, 2072-2075.	7.8	53
11	TRIPIC: Triangular-mesh particle-in-cell code. <i>Journal of Computational Physics</i> , 1990, 87, 488-493.	3.8	52
12	Efficient terahertz emission by mid-infrared laser pulses from gas targets. <i>Optics Letters</i> , 2011, 36, 2608.	3.3	50
13	Workers' placement in an industrial environment. <i>Fuzzy Sets and Systems</i> , 1999, 106, 289-297.	2.7	49
14	Origin of protons accelerated by an intense laser and the dependence of their energy on the plasma density. <i>Physical Review E</i> , 2003, 67, 026403.	2.1	49
15	Simultaneous two-wavelength Doppler phase-shifting digital holography. <i>Applied Optics</i> , 2011, 50, H237.	2.1	44
16	Towards gigawatt terahertz emission by few-cycle laser pulses. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	43
17	Radiation effect on pellet implosion and Rayleigh-Taylor instability in light-ion beam inertial confinement fusion. <i>Laser and Particle Beams</i> , 1993, 11, 757-768.	1.0	42
18	Electron bunch trapping and compression by an intense focused pulse laser. <i>Physical Review E</i> , 2004, 69, 056502.	2.1	37

#	ARTICLE	IF	CITATIONS
19	Electron bunch acceleration and trapping by the ponderomotive force of an intense short-pulse laser. <i>Physics of Plasmas</i> , 2003, 10, 4605-4608.	1.9	35
20	Electron bunch acceleration and trapping by ponderomotive force of an intense short-pulse laser. <i>Laser and Particle Beams</i> , 2005, 23, .	1.0	33
21	Dynamic mitigation of instabilities. <i>Physics of Plasmas</i> , 2012, 19, 024503.	1.9	33
22	Pic simulations of femtosecond interactions with mass-limited targets. <i>European Physical Journal D</i> , 2006, 56, B515-B521.	0.4	32
23	Proposal of Power Plant by Light Ion Beam Fusion. <i>Fusion Science and Technology</i> , 1987, 11, 365-373.	0.6	30
24	Dual-channel polarization holography: a technique for recording two complex amplitude components of a vector wave. <i>Optics Letters</i> , 2012, 37, 4528.	3.3	30
25	Robustness of a tailored hole target in laser-produced collimated proton beam generation. <i>Journal of Applied Physics</i> , 2007, 101, 113305.	2.5	28
26	Robust heavy-ion-beam illumination against a direct-drive-pellet displacement in inertial confinement fusion. <i>Physics of Plasmas</i> , 2005, 12, 122702.	1.9	27
27	Mechanism of electron acceleration by chirped laser pulse. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	26
28	Mitigating parametric instabilities in plasmas by sunlight-like lasers. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	26
29	Analysis of target implosion on irradiation by proton beams I Beam interaction with target plasma. <i>Laser and Particle Beams</i> , 1983, 1, 121-149.	1.0	24
30	Code OK1”Simulation of multi-beam irradiation on a spherical target in heavy ion fusion. <i>Computer Physics Communications</i> , 2004, 157, 160-172.	7.5	24
31	High-energy proton generation and suppression of transverse proton divergence by localized electrons in a laser-foil interaction. <i>Physical Review E</i> , 2005, 71, 056403.	2.1	24
32	Code OK3 “ An upgraded version of OK2 with beam wobbling function. <i>Computer Physics Communications</i> , 2010, 181, 1332-1333.	7.5	23
33	Heavy-ion beam illumination on a direct-driven pellet in heavy-ion inertial fusion. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2004, 7, .	1.8	22
34	Robust fuel target in heavy ion inertial fusion. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 152-156.	1.6	22
35	High-energy-density attosecond electron beam production by intense short-pulse laser with a plasma separator. <i>Laser and Particle Beams</i> , 2006, 24, 321-327.	1.0	21
36	Direct laser acceleration of electron by an ultra intense and short-pulsed laser in under-dense plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	20

#	ARTICLE	IF	CITATIONS
37	Soliton propagation in an inhomogeneous plasma at critical density of negative ions: Effects of gyratory and thermal motions of ions. <i>Physics of Plasmas</i> , 2007, 14, 102110.	1.9	19
38	Efficient energy conversion from laser to proton beam in a laser-foil interaction. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	19
39	Laser ion acceleration toward future ion beam cancer therapy - Numerical simulation study -. <i>Laser Therapy</i> , 2013, 22, 103-114.	0.3	19
40	Stable long range proton acceleration driven by intense laser pulse with underdense plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	19
41	Direct-indirect mixture implosion in heavy ion fusion. <i>Laser and Particle Beams</i> , 2006, 24, 359-369.	1.0	18
42	Generation of a microelectron beam by an intense short pulse laser in the TEM(1, 0) + TEM(0, 1) mode in vacuum. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1665-1673.	2.8	17
43	Electron bow-wave injection of electrons in laser-driven bubble acceleration. <i>Physical Review E</i> , 2012, 85, 046403.	2.1	17
44	High-flux low-divergence positron beam generation from ultra-intense laser irradiated a tapered hollow target. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	17
45	Tritium content of a DT pellet in inertial confinement fusion. <i>Laser and Particle Beams</i> , 1992, 10, 479-484.	1.0	16
46	Beam Non-Uniformity Smoothing Using Density Valley Formed by Heavy Ion Beam Deposition in Inertial Confinement Fusion Fuel Pellet. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 968-971.	1.5	16
47	Numerical studies on the ultrashort pulse $K\text{-}\hat{\Gamma}$ emission sources based on femtosecond laser-“target interactions. <i>Laser and Particle Beams</i> , 2004, 22, 147-156.	1.0	16
48	Enhanced electron-“positron pair production by ultra intense laser irradiating a compound target. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 125007.	2.1	16
49	High-energy-density physics researches based on heavy ion accelerator and pulse power devices. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 577, 298-302.	1.6	14
50	Activities on heavy ion inertial fusion and beam-driven high energy density science in Japan. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 606, 1-5.	1.6	14
51	Collimated proton beam generation from ultraintense laser-irradiated hole target. <i>Laser and Particle Beams</i> , 2010, 28, 319-325.	1.0	14
52	Robust dynamic mitigation of instabilities. <i>Physics of Plasmas</i> , 2015, 22, 042106.	1.9	14
53	Heavy ion beam irradiation non-uniformity in inertial fusion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 315, 372-377.	2.1	13
54	Heavy ion beam final transport through an insulator guide in heavy ion fusion. <i>Laser and Particle Beams</i> , 2003, 21, 27-32.	1.0	13

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55	Beam Final Transport and Direct-Drive Pellet Implosion in Heavy-Ion Fusion. Fusion Science and Technology, 2003, 43, 282-289.	1.1	13
56	Laser electron acceleration by a plasma separator. Physics of Plasmas, 2004, 11, 4878-4881.	1.9	13
57	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
58	Ion acceleration by short high intensity laser pulse in small target sets. Laser and Particle Beams, 2009, 27, 449-457.	1.0	13
59	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
60	High-Energy Electron Production by an Electromagnetic Wave with a Static Magnetic Field. Japanese Journal of Applied Physics, 1989, 28, L704-L706.	1.5	12
61	DT-DD Hybrid Pellet for Inertial Confinement Fusion. Journal of the Physical Society of Japan, 1982, 51, 3018-3021.	1.6	11
62	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
63	Soliton reflection in a plasma with trapped electrons: The effect of dust concentration. Physica D: Nonlinear Phenomena, 2011, 240, 310-316.	2.8	11
64	Dynamic stabilization of filamentation instability. Physics of Plasmas, 2018, 25, .	1.9	11
65	Production, diagnostic and application of pulsed ion beams with light and medium mass; LIB (and MIB) program in Japan. Fusion Engineering and Design, 1999, 44, 319-326.	1.9	10
66	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
67	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
68	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
69	Micro electron bunch generation by intense short pulse laser. Journal Physics D: Applied Physics, 2003, 36, 2878-2882.	2.8	9
70	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
71	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
72	A Distributed Education-Support PSE System. , 2007, , .		9

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73	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
74	Direct- and 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
75	Upper limit power for self-guided propagation of intense lasers in plasma. Applied Physics Letters, 2012, 101, .	3.3	9
76	Direct-drive heavy ion beam inertial confinement fusion: a review, toward our future energy source. Advances in Physics: X, 2021, 6, .	4.1	9
77	Behaviors of Z-Discharged Plasma Channel for Beam Transport in LIB-Fusion. Japanese Journal of Applied Physics, 1983, 22, 302-304.	1.5	8
78	Tritium Breeding in DT-DD Hybrid Pellet for Inertial Confinement Fusion. Journal of the Physical Society of Japan, 1983, 52, 3400-3404.	1.6	8
79	Rotating and propagating LIB stabilized by self-induced magnetic field. Laser and Particle Beams, 1984, 2, 1-12.	1.0	8
80	Two-dimensional focusing of self-magnetically insulated $\alpha$ -Plasma Focus Diode. Laser and Particle Beams, 1989, 7, 287-303.	1.0	8
81	Radiative reaction effect on electron dynamics in an ultra intense laser field. Laser and Particle Beams, 2010, 28, 83-90.	1.0	8
82	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
83	Visual Steering of the Simulation Process in a Scientific Numerical Simulation Environment NCAS - , 2000, , 291-300.		8
84	Numerical simulations for intense light-ion beam propagation in a channel under the influence of plasma inertia. Laser and Particle Beams, 1983, 1, 219-230.	1.0	7
85	Interaction between Particles and a Wave in a System of Magnetic-Trapping Acceleration by an Electromagnetic Wave. Japanese Journal of Applied Physics, 1988, 27, 1980-1983.	1.5	7
86	Controllability of intense-laser ion acceleration. High Power Laser Science and Engineering, 2014, 2, .	4.6	7
87	Fuel Pellet Alignment in Heavy-Ion Inertial Fusion Reactor. IEEE Transactions on Plasma Science, 2019, 47, 2-8.	1.3	7
88	High-Energy-Electron Acceleration by a Pulse Electromagnetic Wave in a System of the Inverse Synchrotron Radiation. Japanese Journal of Applied Physics, 1990, 29, L179-L181.	1.5	6
89	Intense-Electron-Beam Transportation through an Insulator Beam Guide. Japanese Journal of Applied Physics, 1995, 34, L520-L522.	1.5	6
90	A problem-solving environment (PSE) for distributed computing. International Journal of High Performance Computing and Networking, 2004, 1, 223.	0.4	6

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91	Quasi-monoenergetic Tens-of-MeV Proton Beams by a Laser-Illuminated Funnel-Like Target. Chinese Physics Letters, 2012, 29, 035202.	3.3	6
92	Enhancement of proton acceleration field in laser double-layer target interaction. Physics of Plasmas, 2013, 20, 070703.	1.9	6
93	Wobblers and Rayleigh-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
94	Bubble shape and electromagnetic field in the nonlinear regime for laser wakefield acceleration. Physics of Plasmas, 2015, 22, .	1.9	6
95	Dense pair plasma generation by two laser pulses colliding in a cylinder channel. Chinese Physics B, 2017, 26, 035202.	1.4	6
96	Peculiar behavior of Si cluster ions in a high-energy-density solid Al plasma. Physical Review E, 2019, 99, 011201.	2.1	6
97	Intense-Proton-Beam Transport through an Insulator Beam Guide. Japanese Journal of Applied Physics, 1998, 37, L471-L474.	1.5	5
98	Problem Solving Environment Based on Grid Services: NAREGI-PSE. , 0, , .		5
99	A Distributed Problem Solving Environment (PSE) for Scientific Computing. , 0, , .		5
100	Mathematical Modeling Support in a Distributed Problem Solving Environment for Scientific Computing. , 2006, , .		5
101	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
102	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
103	Dependence of electron trapping on bubble geometry in laser-plasma wakefield acceleration. Physics of Plasmas, 2014, 21, .	1.9	5
104	Plasma instability inside solenoid with laser ion source. Review of Scientific Instruments, 2020, 91, 053303.	1.3	5
105	Method of Characteristics for Isentropic Compression of Initially Uniform and Finally Nonuniform DT Sphere. Journal of the Physical Society of Japan, 1981, 50, 3497-3502.	1.6	5
106	Wobbling Heavy Ion Beam Illumination in Heavy Ion Inertial Fusion. Plasma and Fusion Research, 2013, 8, 3404048-3404048.	0.7	5
107	Analysis for Extraction and Bunching of Ion Beam from Spherical Reflex Triode. Journal of the Physical Society of Japan, 1979, 47, 1651-1658.	1.6	4
108	32-Beam irradiation on a spherical heavy ion fusion pellet. Journal Physics D: Applied Physics, 2004, 37, 2392-2394.	2.8	4

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109	Simulations of vacuum laser acceleration: Hidden errors from particle's initial positions. Optics Express, 2010, 18, 14144.	3.4	4
110	Laser guiding plasma channel formation criterion in highly relativistic regime. Applied Physics Letters, 2011, 99, 241501.	3.3	4
111	Towards Sub-TeV electron beams driven by ultra-short, ultra-intense laser pulses. Journal of Plasma Physics, 2012, 78, 461-468.	2.1	4
112	Controllable high-quality electron beam generation by phase slippage effect in layered targets. Physics of Plasmas, 2014, 21, 113106.	1.9	4
113	Peculiarities of laser phase behavior associated with the accelerated electron in a chirped laser pulse. Physics of Plasmas, 2014, 21, .	1.9	4
114	Calculating the radiation characteristics of accelerated electrons in laser-plasma interactions. Physics of Plasmas, 2016, 23, 033113.	1.9	4
115	Target implosion uniformity in heavy-ion fusion. Laser and Particle Beams, 2016, 34, 735-741.	1.0	4
116	Controllable Laser Ion Acceleration. Journal of Physics: Conference Series, 2016, 691, 012021.	0.4	4
117	Beam Pulse Duration Dependence on Target Implosion in Heavy Ion Fusion. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 515-520.	0.2	4
118	Sausage Instabilities Stabilized by Radial Motion in Z-Discharged Plasma Channel for Beam Propagation in LIB-Fusion. Japanese Journal of Applied Physics, 1983, 22, 305-308.	1.5	3
119	Recent progress of studies on intense particle beam at Nagaoka's ETIGO Project. Laser and Particle Beams, 1987, 5, 415-437.	1.0	3
120	Electric and Magnetic Fields Generated by Particles Trapped by an Electromagnetic Wave in a Transverse Static Magnetic Field. Journal of the Physical Society of Japan, 1990, 59, 152-158.	1.6	3
121	Effect of Plasma Generation at Insulator Surface on Transport of Intense Electron Beam through an Insulator Beam Guide. Japanese Journal of Applied Physics, 1996, 35, L1127-L1129.	1.5	3
122	Intense-Electron-Beam Transport Through a Short Insulator Beam Guide. Japanese Journal of Applied Physics, 1996, 35, L120-L122.	1.5	3
123	Intense-Heavy-Ion-Beam Transport through an Insulator Beam Guide. Japanese Journal of Applied Physics, 1999, 38, L270-L272.	1.5	3
124	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
125	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
126	Scientific Simulation Execution Support on a Closed Distributed Computer Environment. , 2006, , .		3



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127	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
128	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
129	Collimated Ion Beam by a Laser-Illuminated Tailored Hole Target. IEEE Transactions on Plasma Science, 2008, 36, 363-369.	1.3	3
130	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
131	Study on target structure for direct and 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
132	Nonuniformity mitigation of beam illumination in heavy ion inertial fusion. Physica Scripta, 2014, 89, 088001.	2.5	3
133	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
134	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
135	Direct-driven target implosion in heavy ion fusion. Journal of Physics: Conference Series, 2016, 688, 012078.	0.4	3
136	Effect of bromine-dopant on radiation-driven Rayleigh-Taylor instability in plastic foil. Plasma Physics and Controlled Fusion, 2017, 59, 105012.	2.1	3
137	High-energy-density plasma jet generated by laser-cone interaction. Physics of Plasmas, 2018, 25, 042706.	1.9	3
138	Fuel pellet injection into heavy-ion inertial fusion reactor. High Energy Density Physics, 2020, 35, 100741.	1.5	3
139	Development of fuel target implosion simulation system in heavy ion inertial confinement fusion. High Energy Density Physics, 2020, 34, 100748.	1.5	3
140	Simulations of laser plasma instabilities using a particle-mesh method. Plasma Physics and Controlled Fusion, 2021, 63, 095005.	2.1	3
141	Enhancement of the conversion efficiency of soft x-ray by colliding gold plasmas. Physics of Plasmas, 2021, 28, .	1.9	3
142	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
143	Improved Screening Constants for Plasma. Japanese Journal of Applied Physics, 1993, 32, 5681-5691.	1.5	2
144	Particle beam transport through an insulator guide. Fusion Engineering and Design, 1999, 44, 309-312.	1.9	2

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145	Conducting versus insulating walls in a heavy ion reaction chamber. Laser and Particle Beams, 2003, 21, 41-46.	1.0	2
146	Design and Implementation of NAREGI Problem Solving Environment for Large-Scale Science Grid. , 2006, , .		2
147	Heavy ion beam interaction with a direct-driven pellet. European Physical Journal Special Topics, 2006, 133, 743-747.	0.2	2
148	Production of low-emittance MeV protons by localized electrons. Laser Physics, 2006, 16, 248-251.	1.2	2
149	Bifurcating energy-angular spectrum of electrons accelerated by intense laser pulse. Laser and Particle Beams, 2007, 25, 365-370.	1.0	2
150	Optimum injection momentum for electrons in vacuum laser acceleration. Europhysics Letters, 2008, 82, 64001.	2.0	2
151	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
152	Wakefield driven by Gaussian (1,0) mode laser pulse and laser-plasma electron acceleration. Applied Physics Letters, 2009, 95, 091501.	3.3	2
153	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
154	A meta Problem Solving Environment (PSE). , 2010, , .		2
155	Laser-plasma booster for ion post acceleration. EPJ Web of Conferences, 2013, 59, 17013.	0.3	2
156	Multi-Stage Ion Acceleration in Laser Plasma Interaction. , 2014, , .		2
157	Controllable laser ion beam generation. Journal of Physics: Conference Series, 2016, 717, 012065.	0.4	2
158	Researches on a reactor core in heavy ion inertial fusion. Laser and Particle Beams, 2016, 34, 705-713.	1.0	2
159	Control of fuel target implosion non-uniformity in heavy ion inertial fusion. Laser and Particle Beams, 2016, 34, 729-734.	1.0	2
160	Phase control of a z -current-driven plasma column. Physical Review E, 2020, 101, 041201.	2.1	2
161	Dynamic mitigation of the tearing mode instability in a collisionless current sheet. Scientific Reports, 2021, 11, 11651.	3.3	2
162	Focusing of intense light-ion beam by self magnetic field. Laser and Particle Beams, 1988, 6, 555-560.	1.0	1

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163	Inhomogeneous mixing of D and T fuels in inertial confinement fusion. <i>Laser and Particle Beams</i> , 1995, 13, 383-388.	1.0	1
164	Grid generation with orthogonality and uniformity of line-spacing changing ratio. <i>Computer Physics Communications</i> , 1996, 94, 19-24.	7.5	1
165	Inhomogeneity smoothing using density valley formed by ion beam deposition in ICF fuel pellet. , 1999, , .		1
166	Bunch compression in a ring for future RIKEN projects. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 544, 393-397.	1.6	1
167	Suppression of high-energy proton beam divergence in laser-foil interaction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 558, 265-270.	1.6	1
168	Ion focusing effect of electron cloud produced by laser-plasma interaction. <i>Laser and Particle Beams</i> , 2006, 24, 157-161.	1.0	1
169	Half-mini beta optics with a bunch rotation for warm dense matter science facility in KEK. , 2007, , .		1
170	Direct-indirect hybrid mode implosion in heavy ion inertial fusion. <i>Journal of Physics: Conference Series</i> , 2008, 112, 032028.	0.4	1
171	Shift Multiplex Recording of Four-Valued Phase Data Pages by Volume Retardagraphy. <i>Applied Sciences (Switzerland)</i> , 2014, 4, 158-170.	2.5	1
172	Uniformity of fuel target implosion in heavy ion fusion. <i>Laser and Particle Beams</i> , 2015, 33, 591-599.	1.0	1
173	Design of binary data page with a phase mask for high-density holographic recording. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
174	Collimation of laser-produced proton beam. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012061.	0.4	1
175	Characteristic investigation of <sup>96</sup> Zr oxide. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
176	Study and evaluation of a plant form modeling system based on the Lindenmayer system. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2018, 09, 1840008.	1.4	1
177	Dynamic stabilization of plasma instability. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	1
178	Uniformity improvement of fuel target implosion by phase control in heavy ion inertial fusion. <i>High Energy Density Physics</i> , 2020, 35, 100735.	1.5	1
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