

# Masakatsu Murakami

## List of Publications by Year in descending order

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206  
papers

3,889  
citations

126907

33  
h-index

155660

55  
g-index

208  
all docs

208  
docs citations

208  
times ranked

2363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbubble implosions in finite hollow spheres. <i>Physics of Plasmas</i> , 2022, 29, 013105.	1.9	1
2	100-kT magnetic field generation using paisley targets by femtosecond laser–plasma interactions. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
3	Non-destructive inspection of water or high-pressure hydrogen gas in metal pipes by the flash of neutrons and x rays generated by laser. <i>AIP Advances</i> , 2022, 12, 045220.	1.3	3
4	Progress in relativistic laser–plasma interaction with kilotesla-level applied magnetic fields. <i>Physics of Plasmas</i> , 2022, 29, 053104.	1.9	2
5	Ion Acoustic Shock Wave Formation and Ion Acceleration in the Interactions of Pair Jets with Electron–ion Plasmas. <i>Astrophysical Journal</i> , 2022, 931, 36.	4.5	4
6	Relativistic-induced opacity of electron–positron plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 045010.	2.1	1
7	Laser astrophysics experiment on the amplification of magnetic fields by shock-induced interfacial instabilities. <i>Physical Review E</i> , 2021, 104, 035206.	2.1	9
8	Generation of electron – positron pairs by laser-ion implosion of a target with a spherical microbubble inside. <i>Quantum Electronics</i> , 2021, 51, 795-800.	1.0	1
9	Magnetic field amplification driven by the gyro motion of charged particles. <i>Scientific Reports</i> , 2021, 11, 23592.	3.3	6
10	Generation of megatesla magnetic fields by intense-laser-driven microtube implosions. <i>Scientific Reports</i> , 2020, 10, 16653.	3.3	30
11	Electron-positron pair creation in the electric fields generated by micro-bubble implosions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126854.	2.1	10
12	Birefringence in thermally anisotropic relativistic plasmas and its impact on laser–plasma interactions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
13	Generation of quasi-monoenergetic ions using optimized hollow nanospheres. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
14	Sign reversal in magnetic field amplification by relativistic laser-driven microtube implosions. <i>Applied Physics Letters</i> , 2020, 117, 244101.	3.3	8
15	Mass-limited plasmas heated by laser-driven fast electrons as a powerful source of neutron and hard x-ray radiation. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 125007.	2.1	0
16	Strong surface magnetic field generation in relativistic short pulse laser–plasma interaction with an applied seed magnetic field. <i>New Journal of Physics</i> , 2020, 22, 113009.	2.9	9
17	Probing and possible application of the QED vacuum with micro-bubble implosions induced by ultra-intense laser pulses. <i>Matter and Radiation at Extremes</i> , 2019, 4, 034401.	3.9	11
18	Relativistic proton emission from ultrahigh-energy-density nanosphere generated by microbubble implosion. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9

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19	Relativistic and electromagnetic molecular dynamics simulations for a carbon-gold nanotube accelerator. <i>Computer Physics Communications</i> , 2019, 241, 56-63.	7.5	1
20	Optimization of hole-boring radiation pressure acceleration of ion beams for fusion ignition. <i>Matter and Radiation at Extremes</i> , 2018, 3, 28-39.	3.9	30
21	Ion beam bunching via phase rotation in cascading laser-driven ion acceleration. <i>Physics of Plasmas</i> , 2018, 25, 083116.	1.9	4
22	Generation of ultrahigh field by micro-bubble implosion. <i>Scientific Reports</i> , 2018, 8, 7537.	3.3	12
23	Optimization of laser illumination configuration for directly driven inertial confinement fusion. <i>Matter and Radiation at Extremes</i> , 2017, 2, 55-68.	3.9	18
24	Boosting laser-ion acceleration with multi-picosecond pulses. <i>Scientific Reports</i> , 2017, 7, 42451.	3.3	71
25	Large-Fluence Laser-Driven Ion Beam for Inertial Fusion Ignition. , 2017, , 775-782.		0
26	On intense proton beam generation and transport in hollow cones. <i>Matter and Radiation at Extremes</i> , 2017, 2, 28-36.	3.9	26
27	Cascaded acceleration of proton beams in ultrashort laser-irradiated microtubes. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
28	Broadening of cyclotron resonance conditions in the relativistic interaction of an intense laser with overdense plasmas. <i>Physical Review E</i> , 2017, 96, 043209.	2.1	13
29	Extreme case of Faraday effect: magnetic splitting of ultrashort laser pulses in plasmas. <i>Optica</i> , 2017, 4, 1086.	9.3	42
30	Collisionless electrostatic shock formation and ion acceleration in intense laser interactions with near critical density plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
31	Stability of stagnation via an expanding accretion shock wave. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	9
32	Dense blocks of energetic ions driven by multi-petawatt lasers. <i>Scientific Reports</i> , 2016, 6, 22150.	3.3	27
33	Enhancement of fast electron energy deposition by external magnetic fields. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012033.	0.4	4
34	High-energy-density electron beam from interaction of two successive laser pulses with subcritical-density plasma. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	8
35	Ion acceleration in shell cylinders irradiated by a short intense laser pulse. <i>Physics of Plasmas</i> , 2015, 22, 093106.	1.9	1
36	Enhanced laser-driven proton acceleration from a relativistically transparent transversely nano-striped target. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 115009.	2.1	2

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37	Reducing ion energy spread in hole-boring radiation pressure acceleration by using two-ion-species targets. <i>Laser and Particle Beams</i> , 2015, 33, 103-107.	1.0	7
38	Verifying the authorship of Saikaku Ihara's work in early modern Japanese literature; a quantitative approach. <i>Digital Scholarship in the Humanities</i> , 2015, 30, 599-607.	0.7	2
39	Filamentation control and collimation of laser accelerated MeV protons. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 125013.	2.1	4
40	Ion beam requirements for fast ignition of inertial fusion targets. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	22
41	Collisionless absorption, hot electron generation, and energy scaling in intense laser-target interaction. <i>Physics of Plasmas</i> , 2015, 22, 033302.	1.9	27
42	Stability of spherical converging shock wave. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	17
43	Characterization of material ablation driven by laser generated intense extreme ultraviolet light. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11
44	Fast ignition driven by quasi-monoenergetic ions: Optimal ion type and reduction of ignition energies with an ion beam array. <i>Laser and Particle Beams</i> , 2014, 32, 419-427.	1.0	21
45	Quasi-monoenergetic ion generation by hole-boring radiation pressure acceleration in inhomogeneous plasmas using tailored laser pulses. <i>Physics of Plasmas</i> , 2014, 21, 012705.	1.9	22
46	Generation of quasi-monoenergetic carbon ions accelerated parallel to the plane of a sandwich target. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	7
47	Generation of orange pulse laser in waterproof fluoride glass fibre with graphene thin film. <i>Electronics Letters</i> , 2014, 50, 1470-1472.	1.0	20
48	High energy density micro plasma bunch from multiple laser interaction with thin target. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	13
49	Revision of the Coulomb logarithm in the ideal plasma. <i>Physics of Plasmas</i> , 2014, 21, 042103.	1.9	9
50	Impact ignition as a track to laser fusion. <i>Nuclear Fusion</i> , 2014, 54, 054007.	3.5	17
51	Visible short pulse generation in waterproof fluoro-aluminate glass fibers using graphene thin film. , 2014, , .		0
52	European Projects to Study Matter, Plasma, and Vacuum with Extremely Intense Laser. <i>The Review of Laser Engineering</i> , 2014, 42, 120.	0.0	0
53	Trapping of electromagnetic radiation in self-generated and preformed cavities. <i>Laser and Particle Beams</i> , 2013, 31, 589-595.	1.0	5
54	Generation of high-quality mega-electron volt proton beams with intense-laser-driven nanotube accelerator. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	22

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55	Dynamic Screening, Coulomb Singularity and Drude Model of Absorption. Contributions To Plasma Physics, 2013, 53, 360-367.	1.1	0
56	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	3.5	27
57	Suppression mechanism by Ca additive of photodarkening effect in Yb-doped silica glass fiber. , 2013, , .		1
58	Visible lasers in waterproof fluoro-aluminate glass fibers excited by GaN laser diodes. , 2013, , .		7
59	Suppression of photo-darkening effect by Ca additive in Yb-doped silica glass fibre. Electronics Letters, 2013, 49, 148-149.	1.0	8
60	Monoenergetic collimated nano-Coulomb electron beams driven by crossed laser beams. Applied Physics Letters, 2013, 103, 024105.	3.3	1
61	Suppression of photo-darkening by Ca additive in Yb-doped silica fiber. , 2013, , .		0
62	Implosion and heating experiments of fast ignition targets by Gekko-XII and LFEX lasers. EPJ Web of Conferences, 2013, 59, 01008.	0.3	2
63	Watt-order direct green laser oscillation at 522nm in Pr <sup>3+</sup> -doped waterproof fluoro-aluminate-glass fiber. , 2013, , .		2
64	Planar-core optical fibre laser. Electronics Letters, 2012, 48, 642.	1.0	1
65	Time evolution of solid-density plasma during and after irradiation by a short, intense laser pulse. Laser and Particle Beams, 2012, 30, 407-414.	1.0	3
66	Intestinal CX <sub>3C</sub> chemokine receptor 1 <sup>high</sup> (CX <sub>3C</sub> CR1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 of Sciences of the United States of America, 2012, 109, 5010-5015.	7.1	92
67	Ultra-intense laser pulse propagation in plasmas: from classic hole-boring to incomplete hole-boring with relativistic transparency. New Journal of Physics, 2012, 14, 063026.	2.9	54
68	Model study on laser interaction with near-critical density plasma. Applied Physics B: Lasers and Optics, 2012, 108, 875-882.	2.2	3
69	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. High Energy Density Physics, 2012, 8, 227-230.	1.5	22
70	Production of high-density high-temperature plasma by collapsing small solid-density plasma shell with two ultra-intense laser pulses. Applied Physics Letters, 2012, 100, .	3.3	13
71	One-dimensional study of the radiation-dominated implosion of a cylindrical tungsten plasma column. Plasma Physics and Controlled Fusion, 2012, 54, 055003.	2.1	22
72	Compression of matter by hyperspherical shock waves. Europhysics Letters, 2012, 100, 24004.	2.0	2

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73	Progress of impact ignition. , 2011, , .		0
74	Analytical model for interaction of short intense laser pulse with solid target. Physics of Plasmas, 2011, 18, 042701.	1.9	7
75	Fast ignition integrated experiments with Gekko and LFEX lasers. Plasma Physics and Controlled Fusion, 2011, 53, 124029.	2.1	55
76	Laser oscillation in 5-cm Nd-doped silica fiber fabricated by zeolite method. Journal of Non-Crystalline Solids, 2011, 357, 963-965.	3.1	10
77	Development of laser-driven quasi-monoenergetic proton beam line for radiobiology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 189-192.	1.6	9
78	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 84-88.	1.6	10
79	Self-consistent stability analysis of spherical shocks. Astrophysics and Space Science, 2011, 336, 195-200.	1.4	10
80	Measurement of relative biological effectiveness of protons in human cancer cells using a laser-driven quasimonoenergetic proton beamline. Applied Physics Letters, 2011, 98, .	3.3	100
81	Ultrahigh acceleration of plasma blocks from direct converting laser energy into motion by nonlinear forces. , 2011, , .		3
82	Radiobiology with laser-accelerated quasi-monoenergetic proton beams. Proceedings of SPIE, 2011, , .	0.8	0
83	Direct visible lasers by rare earth doped waterproof fluoro-aluminate fibers. , 2011, , .		0
84	Experimental investigation to demonstrate Impact Fast Ignition scheme. Journal of Physics: Conference Series, 2010, 244, 022071.	0.4	0
85	Present status and future prospect of Fast Ignition Realization Experiment (FIREX) Project at ILE, Osaka. , 2010, , .		1
86	Insulin-like growth factor-binding protein 7 alters the sensitivity to interferon-based anticancer therapy in hepatocellular carcinoma cells. British Journal of Cancer, 2010, 102, 1483-1490.	6.4	25
87	Temperature dependence of nonlinear optical phenomena in silica glasses. , 2010, , .		2
88	Illumination uniformity of a capsule directly driven by a laser facility with 32 or 48 directions of irradiation. Physics of Plasmas, 2010, 17, .	1.9	12
89	Guiding of intense laser pulse in uniform plasmas and preformed plasma channels. Physics of Plasmas, 2010, 17, 103109.	1.9	12
90	Laser-driven quasimonoenergetic proton burst from water spray target. Physics of Plasmas, 2010, 17, .	1.9	29

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91	Acceleration to high velocities and heating by impact using Nike KrF laser. Physics of Plasmas, 2010, 17, 056317.	1.9	36
92	Optimization of irradiation configuration in laser fusion utilizing self-organizing electrodynamic system. Physics of Plasmas, 2010, 17, .	1.9	20
93	Super-Uniform Target Illumination for Laser Fusion as a Self-Organizing System. , 2010, , .		0
94	Efficient generation of quasimonoenergetic ions by Coulomb explosions of optimized nanostructured clusters. Physics of Plasmas, 2009, 16, .	1.9	31
95	Application of laser-accelerated protons to the demonstration of DNA double-strand breaks in human cancer cells. Applied Physics Letters, 2009, 94, .	3.3	116
96	Radiobiological study by using laser-driven proton beams. , 2009, , .		3
97	Nanocluster explosions and generation of quasimonoenergetic ions. , 2009, , .		1
98	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	3.5	45
99	Impact-driven shock waves and thermonuclear neutron generation. Plasma Physics and Controlled Fusion, 2009, 51, 095001.	2.1	12
100	Fast ignition by detonation in a hydrodynamic flow. Journal of Russian Laser Research, 2009, 30, 279-295.	0.6	6
101	Activation of Wnt/ $\beta$ -catenin signalling pathway induces chemoresistance to interferon- $\gamma$ /5-fluorouracil combination therapy for hepatocellular carcinoma. British Journal of Cancer, 2009, 100, 1647-1658.	6.4	107
102	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
103	Experimental Evidence of Impact Ignition: 100-Fold Increase of Neutron Yield by Impactor Collision. Physical Review Letters, 2009, 102, 235002.	7.8	45
104	Advanced Target Design for the FIREX-I Project. Plasma and Fusion Research, 2009, 4, S1001-S1001.	0.7	1
105	Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography. Physics of Plasmas, 2008, 15, .	1.9	126
106	Plasma expansion into vacuum with charge separation effect. AIP Conference Proceedings, 2008, , .	0.4	0
107	Nanocluster explosions and quasimonoenergetic spectra by homogeneously distributed impurity ions. Physics of Plasmas, 2008, 15, 082702.	1.9	17
108	Ion acceleration due to explosions of nanoparticles driven by thermal electrons. Journal of Physics: Conference Series, 2008, 112, 042074.	0.4	0

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109	Non-dimensional scaling of impact fast ignition experiments. Journal of Physics: Conference Series, 2008, 112, 022071.	0.4	1
110	Neutron generation from impact fast ignition. Journal of Physics: Conference Series, 2008, 112, 022065.	0.4	3
111	Advanced laser-produced EUV light source for HVM with conversion efficiency of 5-7% and B-field mitigation of ions. Proceedings of SPIE, 2008, , .	0.8	12
112	Peculiarities of laser-driven acceleration of a flat projectile up to $\sim$ thermonuclear $\hat{a}$ ™ velocities. Journal of Physics: Conference Series, 2008, 112, 022052.	0.4	0
113	EUV light source by high power laser. Journal of Physics: Conference Series, 2008, 112, 042047.	0.4	10
114	Multi-Species Ion Acceleration in Expansion of Finite-Size Plasma Targets. Plasma and Fusion Research, 2008, 3, 035-035.	0.7	0
115	Equation of state and optimum compression in inertial fusion energy. Laser and Particle Beams, 2007, 25, 585-592.	1.0	44
116	Theoretical and Experimental Databases for High Average Power EUV Light Source by Laser Produced Plasma. AIP Conference Proceedings, 2007, , .	0.4	0
117	EUV light source by high power laser. , 2007, , .		0
118	Self-similar ablative flow of nonstationary accelerating foil due to nonlinear heat conduction. Physics of Plasmas, 2007, 14, 022707.	1.9	15
119	Laser-driven acceleration of a dense matter up to $\sim$ thermonuclear $\hat{a}$ ™ velocities. Plasma Physics and Controlled Fusion, 2007, 49, 1689-1706.	2.1	12
120	Ion acceleration due to expansion of non-quasi-neutral plasmas into vacuum. AIP Conference Proceedings, 2007, , .	0.4	0
121	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
122	Recent results and future prospects of laser fusion research at ILE, Osaka. European Physical Journal D, 2007, 44, 259-264.	1.3	11
123	Self-similar expansion of finite-size non-quasi-neutral plasmas into vacuum: Relation to the problem of ion acceleration. Physics of Plasmas, 2006, 13, 012105.	1.9	106
124	Innovative ignition scheme for ICF $\hat{a}$ ™ impact fast ignition. Nuclear Fusion, 2006, 46, 99-103.	3.5	56
125	Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. Applied Physics Letters, 2006, 89, 151501.	3.3	65
126	Conversion efficiency of extreme ultraviolet radiation in laser-produced plasmas. Physics of Plasmas, 2006, 13, 033107.	1.9	22



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127	Driver development of IFE power plant in Japan – Collaborative process with industry and industrial applications. European Physical Journal Special Topics, 2006, 133, 811-819.	0.2	1
128	Self-similar plasma expansion of a limited mass into vacuum. European Physical Journal Special Topics, 2006, 133, 329-334.	0.2	0
129	Progress in LPP EUV source development at Osaka University. , 2006, , .		1
130	Energy spectra and charge states of debris emitted from laser-produced minimum mass tin plasmas. , 2006, 6151, 1051.		9
131	EUV and particle generations from laser-irradiated solid- and low-density targets. European Physical Journal Special Topics, 2006, 133, 1189-1192.	0.2	1
132	Recent results and future prospects of laser fusion research at ILE, Osaka. European Physical Journal Special Topics, 2006, 133, 27-28.	0.2	1
133	Development of EUV light source by laser-produced plasma. European Physical Journal Special Topics, 2006, 133, 1161-1165.	0.2	1
134	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets. , 2005, , .		9
135	A new twist for inertial fusion energy: Impact ignition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 67-75.	1.6	49
136	Comparison between jet collision and shell impact concepts for fast ignition. Laser and Particle Beams, 2005, 23, .	1.0	35
137	Towards realization of hyper-velocities for impact fast ignition. Plasma Physics and Controlled Fusion, 2005, 47, B815-B822.	2.1	25
138	Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. Applied Physics Letters, 2005, 87, 241503.	3.3	82
139	Ion energy spectrum of expanding laser-plasma with limited mass. Physics of Plasmas, 2005, 12, 062706.	1.9	69
140	Suppression of the Rayleigh-Taylor instability and its implication for the impact ignition. Plasma Physics and Controlled Fusion, 2004, 46, B245-B254.	2.1	7
141	Suppression of Rayleigh-Taylor instability due to radiative ablation in brominated plastic targets. Physics of Plasmas, 2004, 11, 2814-2822.	1.9	29
142	Effect of the satellite lines and opacity on the extreme ultraviolet emission from high-density Xe plasmas. Applied Physics Letters, 2004, 85, 5857-5859.	3.3	41
143	Experimental study on ablative stabilization of Rayleigh-Taylor instability of laser-irradiated targets. , 2004, , .		0
144	Suppression of the Rayleigh-Taylor Instability due to Self-Radiation in a Multiablation Target. Physical Review Letters, 2004, 92, 195001.	7.8	74

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145	Self-Similar Gravitational Collapse of Radiatively Cooling Spheres. <i>Astrophysical Journal</i> , 2004, 607, 879-889.	4.5	6
146	Estimation of emission efficiency for laser-produced EUV plasmas. , 2004, , .		5
147	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.	0.4	10
148	Suppression of Rayleigh-Taylor Instability Using High-Z Doped Plastic Targets for Inertial Fusion Energy. <i>Journal of Plasma and Fusion Research</i> , 2004, 80, 597-604.	0.4	0
149	Single-event high-compression inertial confinement fusion at low temperatures compared with two-step fast ignitor. <i>Journal of Plasma Physics</i> , 2003, 69, 413-429.	2.1	10
150	Scaling laws for hydrodynamically similar implosions with heat conduction. <i>Physics of Plasmas</i> , 2002, 9, 2745-2753.	1.9	18
151	<title>Convective instability of radiatively cooling self-similar implosions</title>. , 2001, , .		0
152	High energy ions generated by laser driven Coulomb explosion of cluster. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 464, 98-102.	1.6	95
153	Indirect-direct hybrid target experiments with the GEKKO XII laser. <i>Nuclear Fusion</i> , 2000, 40, 547-556.	3.5	30
154	Convective instability of radiatively cooling self-similar implosions. <i>Physics of Plasmas</i> , 2000, 7, 2978-2986.	1.9	5
155	Beam matter interaction physics for fast ignitors. <i>Fusion Engineering and Design</i> , 1999, 44, 215-224.	1.9	2
156	Design of a conic irradiation system for laser fusion. <i>Fusion Engineering and Design</i> , 1999, 44, 111-115.	1.9	9
157	Ignition condition and gain scaling of low temperature ignition targets. <i>Nuclear Fusion</i> , 1998, 38, 467-479.	3.5	4
158	Self-similar implosions and explosions of radiatively cooling gaseous masses. <i>Physics of Plasmas</i> , 1998, 5, 518-528.	1.9	4
159	Measured laser fusion gains reproduced by self-similar volume compression and volume ignition for NIF conditions. <i>Journal of Plasma Physics</i> , 1998, 60, 743-760.	2.1	38
160	On the International Symposium. <i>The Review of Laser Engineering</i> , 1998, 26, 473-475.	0.0	0
161	Fast ignition and related plasma physics issues with high-intensity lasers. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A145-A151.	2.1	29
162	Strong electron heating in CHS ICRF heating experiments. <i>Nuclear Fusion</i> , 1997, 37, 53-68.	3.5	28

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163	Critical requirements for low temperature ignition targets. Nuclear Fusion, 1997, 37, 549-555.	3.5	6
164	Interaction physics of the fast ignitor concept. Laser and Particle Beams, 1997, 15, 557-564.	1.0	15
165	The interaction physics of the fast ignitor concept. , 1997, , .		0
166	Ignition and burn dynamics of low temperature ignition D-T targets. , 1997, , .		0
167	Agreement of measured fusion gains with the self-similarity model and volume ignition for NIF conditions. , 1997, , .		0
168	The Interaction Physics of the Fast Ignitor Concept. Astrophysics and Space Science, 1997, 256, 161-168.	1.4	1
169	Implosion dynamics of a hot core. AIP Conference Proceedings, 1996, , .	0.4	0
170	Measurement of absorption distribution by second harmonic and x-ray images. AIP Conference Proceedings, 1996, , .	0.4	1
171	Tow-stage extraction ion diode experiments on Reiden-SHVS for light ion fusion. AIP Conference Proceedings, 1996, , .	0.4	0
172	Design of multi-beam laser irradiation system and uniformity improvement. AIP Conference Proceedings, 1996, , .	0.4	0
173	A new instability of a contact surface driven by a nonuniform shock wave. AIP Conference Proceedings, 1996, , .	0.4	0
174	Smoothing of nonuniformity in a planar ablative flow. Physics of Plasmas, 1996, 3, 2710-2716.	1.9	1
175	Interaction Physics of the Fast Ignitor Concept. Physical Review Letters, 1996, 77, 2483-2486.	7.8	270
176	Irradiation system based on dodecahedron for inertial confinement fusion. Applied Physics Letters, 1995, 66, 1587-1589.	3.3	43
177	Dynamics and stability of a stagnating hot spot. Physics of Plasmas, 1995, 2, 3466-3472.	1.9	10
178	Indirect-drive inertial fusion research at the Institute of Laser Engineering. AIP Conference Proceedings, 1994, , .	0.4	0
179	Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. Physics of Plasmas, 1994, 1, 1653-1661.	1.9	15
180	Sheath dynamics induced by ionâ€acoustic rarefaction wave. Physics of Fluids B, 1993, 5, 3441-3446.	1.7	21

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181	Ion Collection by Electromagnetic Force. Japanese Journal of Applied Physics, 1993, 32, L1471-L1473.	1.5	10
182	Irradiation nonuniformity due to imperfections of laser beams. Journal of Applied Physics, 1993, 74, 802-808.	2.5	44
183	Analysis of radiation symmetrization in hohlraum targets. Nuclear Fusion, 1992, 32, 1715-1724.	3.5	18
184	Experimental investigation of radiation heat waves driven by laser-induced Planck radiation. Physical Review A, 1992, 45, 3987-3996.	2.5	29
185	Electron distribution function in an intense femtosecond laser field. Physical Review A, 1992, 46, R4512-R4515.	2.5	7
186	Design of Laser Fusion Reactor driven by Laser-Diode-Pumped Solid State Laser. Fusion Science and Technology, 1992, 21, 1460-1464.	0.6	5
187	Indirectly driven targets for inertial confinement fusion. Nuclear Fusion, 1991, 31, 1315-1331.	3.5	103
188	X-ray confinement in a gold cavity heated by 351-nm laser light. Physical Review A, 1991, 44, 8323-8333.	2.5	34
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