Katsunobu Nishihara

List of Publications by Year
in descending order

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364 papers	8,557 citations	41258 49 h-index	64668 79 g-index
372 all docs	372 docs citations	372 times ranked	3778 citing authors

#	Article	IF	Citations
1	Chaperone Coexpression Plasmids: Differential and Synergistic Roles of DnaK-DnaJ-GrpE and GroEL-GroES in Assisting Folding of an Allergen of Japanese Cedar Pollen, Cryj2, in Escherichia coli. Applied and Environmental Microbiology, 1998, 64, 1694-1699.	1.4	371
2	Proposed Double-Layer Target for the Generation of High-Quality Laser-Accelerated Ion Beams. Physical Review Letters, 2002, 89, 175003.	2.9	275
3	Interaction Physics of the Fast Ignitor Concept. Physical Review Letters, 1996, 77, 2483-2486.	2.9	270
4	Overexpression of Trigger Factor Prevents Aggregation of Recombinant Proteins in Escherichia coli. Applied and Environmental Microbiology, 2000, 66, 884-889.	1.4	266
5	Beat-wave excitation of plasma wave and observation of accelerated electrons. Physical Review Letters, 1992, 68, 48-51.	2.9	189
6	Molecular dynamics simulation of femtosecond ablation and spallation with different interatomic potentials. Applied Surface Science, 2009, 255, 9592-9596.	3.1	184
7	Scalings of implosion experiments for high neutron yield. Physics of Fluids, 1988, 31, 2884.	1.4	165
8	Opacity Effect on Extreme Ultraviolet Radiation from Laser-Produced Tin Plasmas. Physical Review Letters, 2005, 95, 235004.	2.9	146
9	Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography. Physics of Plasmas, 2008, 15, .	0.7	126
10	Rarefaction Ion Acoustic Solitons in Two-Electron-Temperature Plasma. Journal of the Physical Society of Japan, 1981, 50, 4047-4053.	0.7	117
11	High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. Physical Review E, 2000, 62, 7271-7281.	0.8	114
12	Richtmyerâ€“Meshkov instability: theory of linear and nonlinear evolution. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1769-1807.	1.6	112
13	Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. Applied Physics Letters, 2005, 86, 051501.	1.5	108
14	Formation of Electromagnetic Postsolitons in Plasmas. Physical Review Letters, 2001, 87, .	2.9	105
15	Bursts of Superreflected Laser Light from Inhomogeneous Plasmas due to the Generation of Relativistic Solitary Waves. Physical Review Letters, 1999, 83, 3434-3437.	2.9	101
16	Three-Dimensional Relativistic Electromagnetic Subcycle Solitons. Physical Review Letters, 2002, 89, 275002.	2.9	96
17	High energy ions generated by laser driven Coulomb explosion of cluster. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 464, 98-102.	0.7	95
18	Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. Physics of Plasmas, 1997, 4, 4079-4089.	0.7	92

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19	Two-temperature relaxation and melting after absorption of femtosecond laser pulse. Applied Surface Science, 2009, 255, 9712-9716.	3.1	87
20	Linear perturbation growth at a shocked interface. Physics of Plasmas, 1996, 3, 3761-3776.	0.7	86
21	Pure-tin microdroplets irradiated with double laser pulses for efficient and minimum-mass extreme-ultraviolet light source production. Applied Physics Letters, 2008, 92, .	1.5	85
22	Propagation of a Rippled Shock Wave Driven by Nonuniform Laser Ablation. Physical Review Letters, 1997, 78, 1920-1923.	2.9	84
23	Asymptotic growth in the linear Richtmyerâ€“Meshkov instability. Physics of Plasmas, 1997, 4, 1028-1038.	0.7	83
24	Ion acceleration by superintense laser pulses in plasmas. JETP Letters, 1999, 70, 82-89.	0.4	83
25	Three-dimensional particle-in-cell simulations of energetic electron generation and transport with relativistic laser pulses in overdense plasmas. Physical Review E, 2002, 65, 046408.	0.8	83
26	Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. Applied Physics Letters, 2005, 87, 241503.	1.5	82
27	Generation of collimated beams of relativistic ions in laser-plasma interactions. JETP Letters, 2000, 71, 407-411.	0.4	81
28	Generation of high-energy protons from the Coulomb explosion of hydrogen clusters by intense femtosecond laser pulses. Physical Review A, 2004, 69, .	1.0	77
29	Nanospallation induced by an ultrashort laser pulse. Journal of Experimental and Theoretical Physics, 2008, 107, 1.	0.2	75
30	Shock Wave Structure in Lennard-Jones Crystal via Molecular Dynamics. Physical Review Letters, 1999, 83, 1175-1178.	2.9	74
31	Rayleighâ€“Taylor and Richtmyerâ€“Meshkov instabilities for fluids with a finite density ratio. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 317, 470-476.	0.9	74
32	Suppression of the Rayleigh-Taylor Instability due to Self-Radiation in a Multiablation Target. Physical Review Letters, 2004, 92, 195001.	2.9	74
33	MAGNETIC FIELD AMPLIFICATION ASSOCIATED WITH THE RICHTMYER-MESHKOV INSTABILITY. Astrophysical Journal, 2012, 758, 126.	1.6	70
34	Ion energy spectrum of expanding laser-plasma with limited mass. Physics of Plasmas, 2005, 12, 062706.	0.7	69
35	Magnetically insulated inertial fusion: A new approach to controlled thermonuclear fusion. Physical Review Letters, 1986, 56, 139-142.	2.9	67
36	Relativistic Interaction of Laser Pulses with Plasmas. Reviews of Plasma Physics, 2001, , 227-335.	1.0	67

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37	Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. Applied Physics Letters, 2006, 89, 151501.	1.5	65
38	Anisotropic Coulomb explosion of C60 irradiated with a high-intensity femtosecond laser pulse. Journal of Chemical Physics, 2000, 112, 5012-5020.	1.2	64
39	Molecular-dynamics simulation of rarefaction waves in media that can undergo phase transitions. JETP Letters, 2000, 71, 167-172.	0.4	63
40	Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. Applied Physics Letters, 2006, 88, 161501.	1.5	63
41	Three-dimensional Rayleigh-Taylor instability of spherical systems. Physical Review Letters, 1990, 65, 432-435.	2.9	61
42	Experimental determination of fuel densityâ€radius product of inertial confinement fusion targets using secondary nuclear fusion reactions. Applied Physics Letters, 1986, 49, 555-557.	1.5	60
43	Dynamics of plume and crater formation after action of femtosecond laser pulse. Applied Surface Science, 2007, 253, 6276-6282.	3.1	56
44	Multi-layered flyer accelerated by laser induced shock waves. Physics of Plasmas, 2000, 7, 676-680.	0.7	54
45	Generation of high-quality charged particle beams during the acceleration of ions by high-power laser radiation. Plasma Physics Reports, 2002, 28, 975-991.	0.3	53
46	Critical Magnetic Field Strength for Suppression of the Richtmyer-Meshkov Instability in Plasmas. Physical Review Letters, 2013, 111, 205001.	2.9	53
47	New mechanism of the formation of the nanorelief on a surface irradiated by a femtosecond laser pulse. JETP Letters, 2008, 87, 423-427.	0.4	52
48	Wakeless Triple-Soliton Accelerator. Physical Review Letters, 1986, 57, 1421-1424.	2.9	50
49	Destruction of a solid film under the action of ultrashort laser pulse. JETP Letters, 2003, 77, 606-610.	0.4	50
50	Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. Applied Physics Letters, 2009, 94, 231107.	1.5	50
51	Modeling of radiative properties of Sn plasmas for extreme-ultraviolet source. Journal of Applied Physics, 2010, 107, .	1.1	46
52	Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 150-163.	0.7	46
53	Thresholds for front-side ablation and rear-side spallation ofÂmetal foil irradiated by femtosecond laser pulse. Applied Physics A: Materials Science and Processing, 2008, 92, 797-801.	1.1	45
54	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	1.6	45

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55	Irradiation nonuniformity due to imperfections of laser beams. Journal of Applied Physics, 1993, 74, 802-808.	1.1	44
56	Transitions and the effects of configuration interaction in the spectra of Sn XVâ€“Sn XVIII. Physical Review A, 2009, 79, .	1.0	44
57	Rayleighâ€“Taylor instability on the pusherâ€“fuel contact surface of stagnating targets. Physics of Fluids B, 1990, 2, 2715-2730.	1.7	43
58	Coulomb explosion of benzene induced by an intense laser field. Journal of Chemical Physics, 2002, 117, 3180-3189.	1.2	43
59	Nonlinear evolution of an interface in the Richtmyer-Meshkov instability. Physical Review E, 2003, 67, 036301.	0.8	42
60	Ion generation in a low-density plastic foam by interaction with intense femtosecond laser pulses. Physical Review E, 2004, 69, 026401.	0.8	42
61	EUV emission spectra in collisions of multiply charged Sn ions with He and Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 065204.	0.6	42
62	Effect of the satellite lines and opacity on the extreme ultraviolet emission from high-density Xe plasmas. Applied Physics Letters, 2004, 85, 5857-5859.	1.5	41
63	Characterization of extreme ultraviolet emission using the fourth harmonic of a Nd:YAG laser. Applied Physics Letters, 2005, 86, 181107.	1.5	41
64	Vortex core dynamics and singularity formations in incompressible Richtmyer-Meshkov instability. Physical Review E, 2006, 73, 026304.	0.8	40
65	Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. Applied Physics Letters, 2005, 86, 201501.	1.5	39
66	Improvement of Productivity of Active Horseradish Peroxidase in Escherichia coli by Coexpression of Dsb Proteins.. Journal of Bioscience and Bioengineering, 2000, 90, 600-606.	1.1	39
67	Measured laser fusion gains reproduced by self-similar volume compression and volume ignition for NIF conditions. Journal of Plasma Physics, 1998, 60, 743-760.	0.7	38
68	Generation of high-amplitude plasma waves for particle acceleration by cross-modulated laser wake fields. Physics of Plasmas, 2002, 9, 3147-3153.	0.7	38
69	Instability of a contact surface driven by a nonuniform shock wave. Physical Review E, 1996, 53, R5592-R5595.	0.8	37
70	Solitons and Shock Waves in Two-Electron-Temperature Plasmas. Journal of the Physical Society of Japan, 1985, 54, 572-578.	0.7	36
71	High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. Nuclear Fusion, 1987, 27, 19-30.	1.6	36
72	First observation of density profile in directly laser-driven polystyrene targets for ablative Rayleighâ€“Taylor instability research. Physics of Plasmas, 2003, 10, 4784-4789.	0.7	36

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73	Deflagration Waves in Laser Compression. I. Journal of the Physical Society of Japan, 1978, 45, 2001-2008.	0.7	35
74	Scaling Laws of Plasma Ablation by Thermal Radiation. Japanese Journal of Applied Physics, 1982, 21, L571-L573.	0.8	34
75	Magnetically insulated and inertially confined fusion â€" MICF. Nuclear Fusion, 1988, 28, 369-387.	1.6	34
76	Recent progress of implosion experiments with uniformityâ€improved GEKKO XII laser facility at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 1996, 3, 2077-2083.	0.7	34
77	Ablation Effects on Weakly Nonlinear Rayleigh-Taylor Instability with a Finite Bandwidth. Physical Review Letters, 2002, 89, 115001.	2.9	34
78	Efficient Shell Implosion and Target Design. Japanese Journal of Applied Physics, 1987, 26, 1132-1145.	0.8	33
79	Monochromatic imaging and angular distribution measurements of extreme ultraviolet light from laser-produced Sn and SnO2 plasmas. Applied Physics Letters, 2004, 85, 1919-1921.	1.5	33
80	Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. Chemistry of Materials, 2005, 17, 1115-1122.	3.2	33
81	Interaction of short laser pulses with metals at moderate intensities. Applied Physics A: Materials Science and Processing, 2008, 92, 939-943.	1.1	33
82	Ablated matter expansion and crater formation under the action of ultrashort laser pulse. Journal of Experimental and Theoretical Physics, 2006, 103, 183-197.	0.2	32
83	Soliton Synchrotron Afterglow in a Laser Plasma. Physical Review Letters, 2004, 92, 255001.	2.9	31
84	Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. Applied Physics Letters, 2008, 92, .	1.5	31
85	Spallative Ablation of Metals and Dielectrics. Contributions To Plasma Physics, 2009, 49, 455-466.	0.5	31
86	Time-resolved two-dimensional profiles of electron density and temperature of laser-produced tin plasmas for extreme-ultraviolet lithography light sources. Scientific Reports, 2017, 7, 12328.	1.6	31
87	Optimization of Extreme Ultraviolet Emission from Laser-Produced Tin Plasmas Based on Radiation Hydrodynamics Simulations. Plasma and Fusion Research, 2008, 3, 043-043.	0.3	31
88	Indirect-direct hybrid target experiments with the GEKKO XII laser. Nuclear Fusion, 2000, 40, 547-556.	1.6	30
89	Analytical and numerical study on a vortex sheet in incompressible Richtmyer-Meshkov instability in cylindrical geometry. Physical Review E, 2006, 74, 066303.	0.8	30
90	Fast ignition and related plasma physics issues with high-intensity lasers. Plasma Physics and Controlled Fusion, 1997, 39, A145-A151.	0.9	29

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91	Parametric instabilities of intense lasers from interaction with relativistic hot plasmas. Physical Review E, 2000, 61, 4362-4369.	0.8	29
92	Suppression of Rayleighâ€“Taylor instability due to radiative ablation in brominated plastic targets. Physics of Plasmas, 2004, 11, 2814-2822.	0.7	29
93	Feasibility of Using Laser Ion Accelerators in Proton Therapy. AIP Conference Proceedings, 2004, , .	0.3	29
94	Shock wave structure in dense gases. JETP Letters, 1997, 66, 99-105.	0.4	28
95	Model of hydrodynamic perturbation growth in the start-up phase of laser implosion. Physical Review E, 1998, 58, 3744-3767.	0.8	28
96	Generation of subcycle relativistic solitons by super intense laser pulses in plasmas. Physica D: Nonlinear Phenomena, 2001, 152-153, 682-693.	1.3	28
97	Anisotropic filamentation instability of intense laser beams in plasmas near the critical density. Physical Review E, 2001, 64, 066409.	0.8	28
98	Lyapunov Exponent of a Many Body System and Its Transport Coefficients. Physical Review Letters, 1996, 76, 1812-1815.	2.9	27
99	Feasibility of Lead-Bismuth-Cooled Accelerator-Driven System for Minor-Actinide Transmutation. Nuclear Technology, 2008, 161, 315-328.	0.7	27
100	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	1.6	27
101	Extreme Ultraviolet Radiation Transport in Laser-Irradiated High-ZMetal Foils. Physical Review Letters, 1981, 47, 1000-1003.	2.9	26
102	Smoothing of Nonuniformity by X-ray Radiation in Cannonball Target. Japanese Journal of Applied Physics, 1986, 25, 242-247.	0.8	26
103	Angular distribution control of extreme ultraviolet radiation from laser-produced plasma by manipulating the nanostructure of low-density SnO2 targets. Applied Physics Letters, 2006, 88, 094102.	1.5	26
104	Multiscale character of the nonlinear coherent dynamics in the Rayleigh-Taylor instability. Physical Review E, 2006, 73, 036310.	0.8	26
105	Areal Density Measurement of Imploded Cryogenic Target by Energy Peak Shift of DD-Produced Protons. Physical Review Letters, 1995, 75, 3130-3133.	2.9	25
106	Particle simulation of Lyapunov exponents in one-component strongly coupled plasmas. Physical Review E, 1997, 55, 3439-3449.	0.8	25
107	EUV emission spectra from excited multiply charged xenon ions produced in charge-transfer collisions. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 331-336.	0.6	25
108	Study of Fuel-Pusher Mixing in Laser-Driven Implosions, Using Secondary Nuclear Fusion Reactions. Physical Review Letters, 1987, 59, 2635-2638.	2.9	24

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109	Polarization effects and anisotropy in three-dimensional relativistic self-focusing. Physical Review E, 2002, 65, 045402.	0.8	24
110	Deflagration Waves Supported by Thermal Radiation. Journal of the Physical Society of Japan, 1980, 48, 993-997.	0.7	23
111	Simulation of the EUV Spectrum of Xe and Sn Plasmas. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1307-1314.	1.9	23
112	Tin laser-produced plasma source modeling at 13.5nm for extreme ultraviolet lithography. Applied Physics Letters, 2008, 92, 151501.	1.5	23
113	Neutral Debris Mitigation in Laser Produced Extreme Ultraviolet Light Source by the Use of Minimum-Mass Tin Target. Applied Physics Express, 2008, 1, 056001.	1.1	23
114	Radiochemistry and secondary reactions for the diagnostics of laserâ€driven fusion plasmas. Review of Scientific Instruments, 1986, 57, 1731-1733.	0.6	22
115	Neutron production from a shellâ€confined carbonâ€deuterium plasma by 1.06 Î¼m laser irradiation. Applied Physics Letters, 1987, 51, 2195-2196.	1.5	22
116	Coulomb explosion of a cluster irradiated by a high intensity laser pulse. Laser and Particle Beams, 2000, 18, 503-506.	0.4	22
117	Sheath dynamics induced by ionâ€acoustic rarefaction wave. Physics of Fluids B, 1993, 5, 3441-3446.	1.7	21
118	Mode coupling theory in ablative Rayleighâ€“Taylor instability. Physics of Plasmas, 1995, 2, 4606-4616.	0.7	21
119	Feed-out of Rear Surface Perturbation due to Rarefaction Wave in Laser-Irradiated Targets. Physical Review Letters, 2000, 84, 5331-5334.	2.9	21
120	Production of ion beams in high-power laserâ€“plasma interactions and their applications. Laser and Particle Beams, 2004, 22, 19-24.	0.4	21
121	Two dimensional radiation hydrodynamic simulation for extreme ultra-violet emission from laser-produced tin plasmas. Journal of Physics: Conference Series, 2008, 112, 042048.	0.3	21
122	Blast-waveâ€“sphere interaction using a laser-produced plasma: An experiment motivated by supernova 1987A. Physical Review E, 2001, 64, 047402.	0.8	20
123	Fully nonlinear evolution of a cylindrical vortex sheet in incompressible Richtmyerâ€“Meshkov instability. Physical Review E, 2006, 73, 055304.	0.8	20
124	4d-4f unresolved transition arrays of xenon and tin ions in charge exchange collisions. Journal of Physics: Conference Series, 2007, 58, 231-234.	0.3	20
125	Planar shock wave generated by uniform irradiation from two overlapped partially coherent laser beams. Journal of Applied Physics, 2001, 89, 2571-2575.	1.1	19
126	Verification of high-energy transport codes on the basis of activation data. Physical Review C, 2011, 84, .	1.1	19

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127	Cryogenic deuterium target experiments with the GEKKO XII, green laser system. Physics of Plasmas, 1995, 2, 2495-2503.	0.7	18
128	Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. Applied Physics Letters, 2005, 87, 241502.	1.5	18
129	Charge exchange spectroscopy in Snq+(q= 6-15)-He collisions. Journal of Physics: Conference Series, 2007, 58, 235-238.	0.3	18
130	EUV spectroscopy of Xe ions from the large helical device at the National Institute for Fusion Science for stable plasmas and plasmas undergoing radiation collapse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 035703.	0.6	18
131	Theoretical investigation of the spectrum and conversion efficiency of short wavelength extreme-ultraviolet light sources based on terbium plasmas. Applied Physics Letters, 2010, 97, 231501.	1.5	18
132	Hydrodynamic perturbation growth in start-up phase in laser implosion. Physics of Plasmas, 1998, 5, 1945-1952.	0.7	17
133	Coulomb explosion of hexa-fluorobenzene induced by an intense laser field. Chemical Physics Letters, 2005, 404, 379-383.	1.2	17
134	A new dynamical domain decomposition method for parallel molecular dynamics simulation. , 2005, , .		17
135	Laser ablation and spallation of crystalline aluminum simulated by molecular dynamics. Journal of Physics: Conference Series, 2008, 112, 042080.	0.3	17
136	Magnetic field generation due to resonance absorption. Physics of Fluids, 1976, 19, 1833.	1.4	16
137	Secondary nuclear fusion reactions as evidence of electron degeneracy in highly compressed fusion fuel. Laser and Particle Beams, 1990, 8, 609-620.	0.4	16
138	The interactions of ultra-short high-intensity laser pulses with large molecules and clusters: Experimental and computational studies. Physics of Plasmas, 2001, 8, 2517-2524.	0.7	16
139	Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. Physics of Plasmas, 1994, 1, 1653-1661.	0.7	15
140	Interaction physics of the fast ignitor concept. Laser and Particle Beams, 1997, 15, 557-564.	0.4	15
141	Single spatial mode experiments on initial laser imprint on direct-driven planar targets. Physics of Plasmas, 2002, 9, 1734-1744.	0.7	15
142	Nonlinear Dynamics of Non-uniform Current-Vortex Sheets in Magnetohydrodynamic Flows. Journal of Nonlinear Science, 2017, 27, 531-572.	1.0	15
143	Generation of one-cycle laser pulses by use of high-amplitude plasma waves. Physical Review E, 2000, 62, 7258-7265.	0.8	14
144	Laboratory simulation of the collision of supernova 1987A with its circumstellar ring nebula. Plasma Physics Reports, 2001, 27, 843-851.	0.3	14

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145	Threeâ€dimensional imaging of laser imploded targets. Journal of Applied Physics, 1990, 68, 1483-1488.	1.1	13
146	Simulation of the expansion of a crystal heated by an ultrashort laser pulse. Applied Surface Science, 2007, 253, 6390-6393.	3.1	13
147	Conversion Efficiency of LPP Sources. , 0, , 339-370.		13
148	Weak Thermonuclear Reaction Wave in High-Density Plasma. Journal of the Physical Society of Japan, 1976, 41, 1774-1777.	0.7	12
149	Thermonuclear Reaction Wave in High-Density Plasma. Journal of the Physical Society of Japan, 1977, 43, 1393-1399.	0.7	12
150	Gain measurements of the Câ€‰VI 3dâ€“2ptransition (18.2 nm) from the wallâ€confined carbon plasmas produced by a CO2laser. Applied Physics Letters, 1989, 55, 223-225.	1.5	12
151	Atomic modeling of the plasma EUV sources. High Energy Density Physics, 2007, 3, 250-255.	0.4	12
152	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
153	Identification of 4dâ€“5p transitions in the spectra of Sn XVâ€“Sn XIX recorded from collisions between Sn ions and He. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 165207.	0.6	12
154	Xâ€ray and radioactive measurements in ICF research at ILE Osaka (invited). Review of Scientific Instruments, 1985, 56, 1128-1132.	0.6	11
155	Fermi-degeneracy and discrete-ion effects in the spherical-cell model and electron-electron correlation effects in hot dense plasmas. Physical Review A, 1992, 46, 6596-6607.	1.0	11
156	Orientation Dependence of Shock Structure with Melting in L-J Crystal from Molecular Dynamics. Progress of Theoretical Physics Supplement, 2000, 138, 223-228.	0.2	11
157	Theoretical and experimental study of hydrodynamics of metal target irradiated by ultrashort laser pulse. , 2008, , .		11
158	Atomic modeling of the plasma EUV sources. High Energy Density Physics, 2009, 5, 147-151.	0.4	11
159	Inertial confinement fusion research by particle beams at ILE Osaka. Laser and Particle Beams, 1983, 1, 29-65.	0.4	10
160	Dynamics and stability of a stagnating hot spot. Physics of Plasmas, 1995, 2, 3466-3472.	0.7	10
161	Single-event high-compression inertial confinement fusion at low temperatures compared with two-step fast ignitor. Journal of Plasma Physics, 2003, 69, 413-429.	0.7	10
162	Multi-electron correlations in atomic or ionic excited states. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1227-1228.	0.8	10

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163	EUV light source by high power laser. Journal of Physics: Conference Series, 2008, 112, 042047.	0.3	10
164	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. Applied Physics Letters, 2017, 111, 233506.	1.5	10
165	Characterization of Extreme UV Radiation from Laser Produced Spherical Tin Plasmas for Use in Lithography. Journal of Plasma and Fusion Research, 2004, 80, 325-330.	0.4	10
166	Effect of an External Circuit on Anomalous Resistivity in Plasmas. Physical Review Letters, 1972, 28, 424-427.	2.9	9
167	Energy absorption and transport in layered targets irradiated by a relativistic electron beam. Applied Physics Letters, 1980, 37, 533-535.	1.5	9
168	Strong Damping of Stimulated Brillouin Scattering in Cavity-Structured Targets. Physical Review Letters, 1987, 58, 33-36.	2.9	9
169	Reduction in bremsstrahlung emission from hot, dense binary-ionic-mixture plasmas. Physical Review A, 1990, 42, 3532-3543.	1.0	9
170	Implosion ofD2temperature-controlled cryogenic foam targets with plastic ablators. Physical Review E, 1994, 49, 1520-1526.	0.8	9
171	Properties of EUV and particle generations from laser-irradiated solid- and low-density tin targets. , 2005, , .		9
172	Energy spectra and charge states of debris emitted from laser-produced minimum mass tin plasmas. , 2006, 6151, 1051.		9
173	Analysis of the emission spectrum of Xe and Sn. , 2006, , .		9
174	Nano-structured lithium-tin plane fabrication for laser produced plasma and extreme ultraviolet generation. Laser and Particle Beams, 2008, 26, 497-501.	0.4	9
175	Characteristics of plasmas imploded by ï‰, 2ï‰, 3ï‰ and 4ï‰ lasers. Laser and Particle Beams, 1986, 4, 43-54.	0.4	8
176	Experimental Study on Soft X-Ray Radiation Emitted from a Laser-Heated Gold Cavity. Japanese Journal of Applied Physics, 1989, 28, 1695-1702.	0.8	8
177	Simulation of recombination-pumped soft-x-ray lasers in wall-confined laser-produced plasmas. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 266.	0.9	8
178	Grasp planning algorithm for a multifingered hand-arm robot. , 0, , .		8
179	Anisotropic Filamentation of Linearly Polarized Ultra Intense Laser in Overdense Plasmas. Journal of Plasma and Fusion Research, 1999, 75-CD, 219-233.	0.4	8
180	Spatial Coherence Measurement of 13.9 nm Ni-like Ag Soft X-Ray Laser Pumped by a 1.5 ps, 20 J Laser. Japanese Journal of Applied Physics, 2003, 42, 443-448.	0.8	8

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181	Normal velocity freeze-out of the Richtmyer-Meshkov instability when a shock is reflected. Physical Review E, 2004, 70, 026305.	0.8	8
182	Atomistic Dynamics of the Richtmyer-Meshkov Instability in Cylindrical and Planar Geometries. AIP Conference Proceedings, 2006, , .	0.3	8
183	Ignition and Burning Calculations in Inertial Confinement Fusion Driven by Light Ion Beam. Journal of the Physical Society of Japan, 1981, 50, 3085-3090.	0.7	7
184	Absorption of 0.53 Î¼m laser light in cannonball targets. Optics Communications, 1986, 60, 169-174.	1.0	7
185	Observation of long life plasma generated in a cavity by CO₂ lasers. Laser and Particle Beams, 1986, 4, 17-25.	0.4	7
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