

Katsunobu Nishihara

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5063405/publications.pdf>

Version: 2024-02-01

364
papers

8,557
citations

41344

49
h-index

64796

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 <i>Escherichia coli</i> . Applied and Environmental Microbiology, 1998, 64, 1694-1699. | 3.1 | 371 |
| 2 | Proposed Double-Layer Target for the Generation of High-Quality Laser-Accelerated Ion Beams. Physical Review Letters, 2002, 89, 175003. | 7.8 | 275 |
| 3 | Interaction Physics of the Fast Ignitor Concept. Physical Review Letters, 1996, 77, 2483-2486. | 7.8 | 270 |
| 4 | Overexpression of Trigger Factor Prevents Aggregation of Recombinant Proteins in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2000, 66, 884-889. | 3.1 | 266 |
| 5 | Beat-wave excitation of plasma wave and observation of accelerated electrons. Physical Review Letters, 1992, 68, 48-51. | 7.8 | 189 |
| 6 | Molecular dynamics simulation of femtosecond ablation and spallation with different interatomic potentials. Applied Surface Science, 2009, 255, 9592-9596. | 6.1 | 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. | 7.8 | 146 |
| 9 | Plasma physics and radiation hydrodynamics in developing an extreme ultraviolet light source for lithography. Physics of Plasmas, 2008, 15, . | 1.9 | 126 |
| 10 | Rarefaction Ion Acoustic Solitons in Two-Electron-Temperature Plasma. Journal of the Physical Society of Japan, 1981, 50, 4047-4053. | 1.6 | 117 |
| 11 | High density collimated beams of relativistic ions produced by petawatt laser pulses in plasmas. Physical Review E, 2000, 62, 7271-7281. | 2.1 | 114 |
| 12 | Richtmyer-Meshkov instability: theory of linear and nonlinear evolution. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1769-1807. | 3.4 | 112 |
| 13 | Characterization of extreme ultraviolet emission from laser-produced spherical tin plasma generated with multiple laser beams. Applied Physics Letters, 2005, 86, 051501. | 3.3 | 108 |
| 14 | Formation of Electromagnetic Postsolitons in Plasmas. Physical Review Letters, 2001, 87, . | 7.8 | 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. | 7.8 | 101 |
| 16 | Three-Dimensional Relativistic Electromagnetic Subcycle Solitons. Physical Review Letters, 2002, 89, 275002. | 7.8 | 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. | 1.6 | 95 |
| 18 | Direct-drive hydrodynamic instability experiments on the GEKKO XII laser. Physics of Plasmas, 1997, 4, 4079-4089. | 1.9 | 92 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Two-temperature relaxation and melting after absorption of femtosecond laser pulse. <i>Applied Surface Science</i> , 2009, 255, 9712-9716. | 6.1 | 87 |
| 20 | Linear perturbation growth at a shocked interface. <i>Physics of Plasmas</i> , 1996, 3, 3761-3776. | 1.9 | 86 |
| 21 | Pure-tin microdroplets irradiated with double laser pulses for efficient and minimum-mass extreme-ultraviolet light source production. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 85 |
| 22 | Propagation of a Rippled Shock Wave Driven by Nonuniform Laser Ablation. <i>Physical Review Letters</i> , 1997, 78, 1920-1923. | 7.8 | 84 |
| 23 | Asymptotic growth in the linear Richtmyer-Meshkov instability. <i>Physics of Plasmas</i> , 1997, 4, 1028-1038. | 1.9 | 83 |
| 24 | Ion acceleration by superintense laser pulses in plasmas. <i>JETP Letters</i> , 1999, 70, 82-89. | 1.4 | 83 |
| 25 | Three-dimensional particle-in-cell simulations of energetic electron generation and transport with relativistic laser pulses in overdense plasmas. <i>Physical Review E</i> , 2002, 65, 046408. | 2.1 | 83 |
| 26 | Properties of ion debris emitted from laser-produced mass-limited tin plasmas for extreme ultraviolet light source applications. <i>Applied Physics Letters</i> , 2005, 87, 241503. | 3.3 | 82 |
| 27 | Generation of collimated beams of relativistic ions in laser-plasma interactions. <i>JETP Letters</i> , 2000, 71, 407-411. | 1.4 | 81 |
| 28 | Generation of high-energy protons from the Coulomb explosion of hydrogen clusters by intense femtosecond laser pulses. <i>Physical Review A</i> , 2004, 69, . | 2.5 | 77 |
| 29 | Nanospallation induced by an ultrashort laser pulse. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 107, 1. | 0.9 | 75 |
| 30 | Shock Wave Structure in Lennard-Jones Crystal via Molecular Dynamics. <i>Physical Review Letters</i> , 1999, 83, 1175-1178. | 7.8 | 74 |
| 31 | Rayleigh-Taylor and Richtmyer-Meshkov instabilities for fluids with a finite density ratio. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 317, 470-476. | 2.1 | 74 |
| 32 | Suppression of the Rayleigh-Taylor Instability due to Self-Radiation in a Multiablation Target. <i>Physical Review Letters</i> , 2004, 92, 195001. | 7.8 | 74 |
| 33 | MAGNETIC FIELD AMPLIFICATION ASSOCIATED WITH THE RICHTMYER-MESHKOV INSTABILITY. <i>Astrophysical Journal</i> , 2012, 758, 126. | 4.5 | 70 |
| 34 | Ion energy spectrum of expanding laser-plasma with limited mass. <i>Physics of Plasmas</i> , 2005, 12, 062706. | 1.9 | 69 |
| 35 | Magnetically insulated inertial fusion: A new approach to controlled thermonuclear fusion. <i>Physical Review Letters</i> , 1986, 56, 139-142. | 7.8 | 67 |
| 36 | Relativistic Interaction of Laser Pulses with Plasmas. <i>Reviews of Plasma Physics</i> , 2001, , 227-335. | 1.0 | 67 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Optimum laser pulse duration for efficient extreme ultraviolet light generation from laser-produced tin plasmas. <i>Applied Physics Letters</i> , 2006, 89, 151501. | 3.3 | 65 |
| 38 | Anisotropic Coulomb explosion of C60 irradiated with a high-intensity femtosecond laser pulse. <i>Journal of Chemical Physics</i> , 2000, 112, 5012-5020. | 3.0 | 64 |
| 39 | Molecular-dynamics simulation of rarefaction waves in media that can undergo phase transitions. <i>JETP Letters</i> , 2000, 71, 167-172. | 1.4 | 63 |
| 40 | Low-density tin targets for efficient extreme ultraviolet light emission from laser-produced plasmas. <i>Applied Physics Letters</i> , 2006, 88, 161501. | 3.3 | 63 |
| 41 | Three-dimensional Rayleigh-Taylor instability of spherical systems. <i>Physical Review Letters</i> , 1990, 65, 432-435. | 7.8 | 61 |
| 42 | Experimental determination of fuel density \times radius product of inertial confinement fusion targets using secondary nuclear fusion reactions. <i>Applied Physics Letters</i> , 1986, 49, 555-557. | 3.3 | 60 |
| 43 | Dynamics of plume and crater formation after action of femtosecond laser pulse. <i>Applied Surface Science</i> , 2007, 253, 6276-6282. | 6.1 | 56 |
| 44 | Multi-layered flyer accelerated by laser induced shock waves. <i>Physics of Plasmas</i> , 2000, 7, 676-680. | 1.9 | 54 |
| 45 | Generation of high-quality charged particle beams during the acceleration of ions by high-power laser radiation. <i>Plasma Physics Reports</i> , 2002, 28, 975-991. | 0.9 | 53 |
| 46 | Critical Magnetic Field Strength for Suppression of the Richtmyer-Meshkov Instability in Plasmas. <i>Physical Review Letters</i> , 2013, 111, 205001. | 7.8 | 53 |
| 47 | New mechanism of the formation of the nanorelief on a surface irradiated by a femtosecond laser pulse. <i>JETP Letters</i> , 2008, 87, 423-427. | 1.4 | 52 |
| 48 | Wakeless Triple-Soliton Accelerator. <i>Physical Review Letters</i> , 1986, 57, 1421-1424. | 7.8 | 50 |
| 49 | Destruction of a solid film under the action of ultrashort laser pulse. <i>JETP Letters</i> , 2003, 77, 606-610. | 1.4 | 50 |
| 50 | Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. <i>Applied Physics Letters</i> , 2009, 94, 231107. | 3.3 | 50 |
| 51 | Modeling of radiative properties of Sn plasmas for extreme-ultraviolet source. <i>Journal of Applied Physics</i> , 2010, 107, . | 2.5 | 46 |
| 52 | Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 745, 150-163. | 1.6 | 46 |
| 53 | Thresholds for front-side ablation and rear-side spallation of \AA metal foil irradiated by femtosecond laser pulse. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 797-801. | 2.3 | 45 |
| 54 | Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. <i>Nuclear Fusion</i> , 2009, 49, 104024. | 3.5 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Irradiation nonuniformity due to imperfections of laser beams. <i>Journal of Applied Physics</i> , 1993, 74, 802-808. | 2.5 | 44 |
| 56 | Transitions and the effects of configuration interaction in the spectra of Sn XV–Sn XVIII. <i>Physical Review A</i> , 2009, 79, . | 2.5 | 44 |
| 57 | Rayleigh–Taylor instability on the pusher–fuel contact surface of stagnating targets. <i>Physics of Fluids B</i> , 1990, 2, 2715-2730. | 1.7 | 43 |
| 58 | Coulomb explosion of benzene induced by an intense laser field. <i>Journal of Chemical Physics</i> , 2002, 117, 3180-3189. | 3.0 | 43 |
| 59 | Nonlinear evolution of an interface in the Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2003, 67, 036301. | 2.1 | 42 |
| 60 | Ion generation in a low-density plastic foam by interaction with intense femtosecond laser pulses. <i>Physical Review E</i> , 2004, 69, 026401. | 2.1 | 42 |
| 61 | EUV emission spectra in collisions of multiply charged Sn ions with He and Xe. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 065204. | 1.5 | 42 |
| 62 | Effect of the satellite lines and opacity on the extreme ultraviolet emission from high-density Xe plasmas. <i>Applied Physics Letters</i> , 2004, 85, 5857-5859. | 3.3 | 41 |
| 63 | Characterization of extreme ultraviolet emission using the fourth harmonic of a Nd:YAG laser. <i>Applied Physics Letters</i> , 2005, 86, 181107. | 3.3 | 41 |
| 64 | Vortex core dynamics and singularity formations in incompressible Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2006, 73, 026304. | 2.1 | 40 |
| 65 | Characterization of density profile of laser-produced Sn plasma for 13.5nm extreme ultraviolet source. <i>Applied Physics Letters</i> , 2005, 86, 201501. | 3.3 | 39 |
| 66 | Improvement of Productivity of Active Horseradish Peroxidase in <i>Escherichia coli</i> by Coexpression of Dsb Proteins.. <i>Journal of Bioscience and Bioengineering</i> , 2000, 90, 600-606. | 2.2 | 39 |
| 67 | 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 |
| 68 | Generation of high-amplitude plasma waves for particle acceleration by cross-modulated laser wake fields. <i>Physics of Plasmas</i> , 2002, 9, 3147-3153. | 1.9 | 38 |
| 69 | Instability of a contact surface driven by a nonuniform shock wave. <i>Physical Review E</i> , 1996, 53, R5592-R5595. | 2.1 | 37 |
| 70 | Solitons and Shock Waves in Two-Electron-Temperature Plasmas. <i>Journal of the Physical Society of Japan</i> , 1985, 54, 572-578. | 1.6 | 36 |
| 71 | High thermonuclear neutron yield by shock multiplexing implosion with GEKKO XII green laser. <i>Nuclear Fusion</i> , 1987, 27, 19-30. | 3.5 | 36 |
| 72 | First observation of density profile in directly laser-driven polystyrene targets for ablative Rayleigh–Taylor instability research. <i>Physics of Plasmas</i> , 2003, 10, 4784-4789. | 1.9 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Deflagration Waves in Laser Compression. I. Journal of the Physical Society of Japan, 1978, 45, 2001-2008. | 1.6 | 35 |
| 74 | Scaling Laws of Plasma Ablation by Thermal Radiation. Japanese Journal of Applied Physics, 1982, 21, L571-L573. | 1.5 | 34 |
| 75 | Magnetically insulated and inertially confined fusion "MICF". Nuclear Fusion, 1988, 28, 369-387. | 3.5 | 34 |
| 76 | Recent progress of implosion experiments with uniformity-improved GEKKO XII laser facility at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 1996, 3, 2077-2083. | 1.9 | 34 |
| 77 | Ablation Effects on Weakly Nonlinear Rayleigh-Taylor Instability with a Finite Bandwidth. Physical Review Letters, 2002, 89, 115001. | 7.8 | 34 |
| 78 | Efficient Shell Implosion and Target Design. Japanese Journal of Applied Physics, 1987, 26, 1132-1145. | 1.5 | 33 |
| 79 | Monochromatic imaging and angular distribution measurements of extreme ultraviolet light from laser-produced Sn and SnO ₂ plasmas. Applied Physics Letters, 2004, 85, 1919-1921. | 3.3 | 33 |
| 80 | Preparation of Low-Density Macrocellular Tin Dioxide Foam with Variable Window Size. Chemistry of Materials, 2005, 17, 1115-1122. | 6.7 | 33 |
| 81 | Interaction of short laser pulses with metals at moderate intensities. Applied Physics A: Materials Science and Processing, 2008, 92, 939-943. | 2.3 | 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. | 0.9 | 32 |
| 83 | Soliton Synchrotron Afterglow in a Laser Plasma. Physical Review Letters, 2004, 92, 255001. | 7.8 | 31 |
| 84 | Absolute evaluation of out-of-band radiation from laser-produced tin plasmas for extreme ultraviolet lithography. Applied Physics Letters, 2008, 92, . | 3.3 | 31 |
| 85 | Spallative Ablation of Metals and Dielectrics. Contributions To Plasma Physics, 2009, 49, 455-466. | 1.1 | 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. | 3.3 | 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. | 0.7 | 31 |
| 88 | Indirect-direct hybrid target experiments with the GEKKO XII laser. Nuclear Fusion, 2000, 40, 547-556. | 3.5 | 30 |
| 89 | Analytical and numerical study on a vortex sheet in incompressible Richtmyer-Meshkov instability in cylindrical geometry. Physical Review E, 2006, 74, 066303. | 2.1 | 30 |
| 90 | Fast ignition and related plasma physics issues with high-intensity lasers. Plasma Physics and Controlled Fusion, 1997, 39, A145-A151. | 2.1 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Parametric instabilities of intense lasers from interaction with relativistic hot plasmas. <i>Physical Review E</i> , 2000, 61, 4362-4369. | 2.1 | 29 |
| 92 | Suppression of Rayleigh-Taylor instability due to radiative ablation in brominated plastic targets. <i>Physics of Plasmas</i> , 2004, 11, 2814-2822. | 1.9 | 29 |
| 93 | Feasibility of Using Laser Ion Accelerators in Proton Therapy. <i>AIP Conference Proceedings</i> , 2004, , . | 0.4 | 29 |
| 94 | Shock wave structure in dense gases. <i>JETP Letters</i> , 1997, 66, 99-105. | 1.4 | 28 |
| 95 | Model of hydrodynamic perturbation growth in the start-up phase of laser implosion. <i>Physical Review E</i> , 1998, 58, 3744-3767. | 2.1 | 28 |
| 96 | Generation of subcycle relativistic solitons by super intense laser pulses in plasmas. <i>Physica D: Nonlinear Phenomena</i> , 2001, 152-153, 682-693. | 2.8 | 28 |
| 97 | Anisotropic filamentation instability of intense laser beams in plasmas near the critical density. <i>Physical Review E</i> , 2001, 64, 066409. | 2.1 | 28 |
| 98 | Lyapunov Exponent of a Many Body System and Its Transport Coefficients. <i>Physical Review Letters</i> , 1996, 76, 1812-1815. | 7.8 | 27 |
| 99 | Feasibility of Lead-Bismuth-Cooled Accelerator-Driven System for Minor-Actinide Transmutation. <i>Nuclear Technology</i> , 2008, 161, 315-328. | 1.2 | 27 |
| 100 | Present status of fast ignition realization experiment and inertial fusion energy development. <i>Nuclear Fusion</i> , 2013, 53, 104021. | 3.5 | 27 |
| 101 | Extreme Ultraviolet Radiation Transport in Laser-Irradiated High-ZMetal Foils. <i>Physical Review Letters</i> , 1981, 47, 1000-1003. | 7.8 | 26 |
| 102 | Smoothing of Nonuniformity by X-ray Radiation in Cannonball Target. <i>Japanese Journal of Applied Physics</i> , 1986, 25, 242-247. | 1.5 | 26 |
| 103 | Angular distribution control of extreme ultraviolet radiation from laser-produced plasma by manipulating the nanostructure of low-density SnO ₂ targets. <i>Applied Physics Letters</i> , 2006, 88, 094102. | 3.3 | 26 |
| 104 | Multiscale character of the nonlinear coherent dynamics in the Rayleigh-Taylor instability. <i>Physical Review E</i> , 2006, 73, 036310. | 2.1 | 26 |
| 105 | Areal Density Measurement of Imploded Cryogenic Target by Energy Peak Shift of DD-Produced Protons. <i>Physical Review Letters</i> , 1995, 75, 3130-3133. | 7.8 | 25 |
| 106 | Particle simulation of Lyapunov exponents in one-component strongly coupled plasmas. <i>Physical Review E</i> , 1997, 55, 3439-3449. | 2.1 | 25 |
| 107 | EUV emission spectra from excited multiply charged xenon ions produced in charge-transfer collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 235, 331-336. | 1.4 | 25 |
| 108 | Study of Fuel-Pusher Mixing in Laser-Driven Implosions, Using Secondary Nuclear Fusion Reactions. <i>Physical Review Letters</i> , 1987, 59, 2635-2638. | 7.8 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Polarization effects and anisotropy in three-dimensional relativistic self-focusing. <i>Physical Review E</i> , 2002, 65, 045402. | 2.1 | 24 |
| 110 | Deflagration Waves Supported by Thermal Radiation. <i>Journal of the Physical Society of Japan</i> , 1980, 48, 993-997. | 1.6 | 23 |
| 111 | Simulation of the EUV Spectrum of Xe and Sn Plasmas. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004, 10, 1307-1314. | 2.9 | 23 |
| 112 | Tin laser-produced plasma source modeling at 13.5nm for extreme ultraviolet lithography. <i>Applied Physics Letters</i> , 2008, 92, 151501. | 3.3 | 23 |
| 113 | Neutral Debris Mitigation in Laser Produced Extreme Ultraviolet Light Source by the Use of Minimum-Mass Tin Target. <i>Applied Physics Express</i> , 2008, 1, 056001. | 2.4 | 23 |
| 114 | Radiochemistry and secondary reactions for the diagnostics of laser-driven fusion plasmas. <i>Review of Scientific Instruments</i> , 1986, 57, 1731-1733. | 1.3 | 22 |
| 115 | Neutron production from a shell-confined carbon-deuterium plasma by 1.06 μm laser irradiation. <i>Applied Physics Letters</i> , 1987, 51, 2195-2196. | 3.3 | 22 |
| 116 | Coulomb explosion of a cluster irradiated by a high intensity laser pulse. <i>Laser and Particle Beams</i> , 2000, 18, 503-506. | 1.0 | 22 |
| 117 | Sheath dynamics induced by ion-acoustic rarefaction wave. <i>Physics of Fluids B</i> , 1993, 5, 3441-3446. | 1.7 | 21 |
| 118 | Mode coupling theory in ablative Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 1995, 2, 4606-4616. | 1.9 | 21 |
| 119 | Feed-out of Rear Surface Perturbation due to Rarefaction Wave in Laser-Irradiated Targets. <i>Physical Review Letters</i> , 2000, 84, 5331-5334. | 7.8 | 21 |
| 120 | Production of ion beams in high-power laser-plasma interactions and their applications. <i>Laser and Particle Beams</i> , 2004, 22, 19-24. | 1.0 | 21 |
| 121 | Two dimensional radiation hydrodynamic simulation for extreme ultra-violet emission from laser-produced tin plasmas. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042048. | 0.4 | 21 |
| 122 | Blast-wave-sphere interaction using a laser-produced plasma: An experiment motivated by supernova 1987A. <i>Physical Review E</i> , 2001, 64, 047402. | 2.1 | 20 |
| 123 | Fully nonlinear evolution of a cylindrical vortex sheet in incompressible Richtmyer-Meshkov instability. <i>Physical Review E</i> , 2006, 73, 055304. | 2.1 | 20 |
| 124 | 4d-4f unresolved transition arrays of xenon and tin ions in charge exchange collisions. <i>Journal of Physics: Conference Series</i> , 2007, 58, 231-234. | 0.4 | 20 |
| 125 | Planar shock wave generated by uniform irradiation from two overlapped partially coherent laser beams. <i>Journal of Applied Physics</i> , 2001, 89, 2571-2575. | 2.5 | 19 |
| 126 | Verification of high-energy transport codes on the basis of activation data. <i>Physical Review C</i> , 2011, 84, . | 2.9 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Cryogenic deuterium target experiments with the GEKKO XII, green laser system. <i>Physics of Plasmas</i> , 1995, 2, 2495-2503. | 1.9 | 18 |
| 128 | Dynamic imaging of 13.5 nm extreme ultraviolet emission from laser-produced Sn plasmas. <i>Applied Physics Letters</i> , 2005, 87, 241502. | 3.3 | 18 |
| 129 | Charge exchange spectroscopy in Sn^{q+} ($q=6-15$)-He collisions. <i>Journal of Physics: Conference Series</i> , 2007, 58, 235-238. | 0.4 | 18 |
| 130 | ELIV spectroscopy of Xe ions from the large helical device at the National Institute for Fusion Science for stable plasmas and plasmas undergoing radiation collapse. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 035703. | 1.5 | 18 |
| 131 | Theoretical investigation of the spectrum and conversion efficiency of short wavelength extreme-ultraviolet light sources based on terbium plasmas. <i>Applied Physics Letters</i> , 2010, 97, 231501. | 3.3 | 18 |
| 132 | Hydrodynamic perturbation growth in start-up phase in laser implosion. <i>Physics of Plasmas</i> , 1998, 5, 1945-1952. | 1.9 | 17 |
| 133 | Coulomb explosion of hexa-fluorobenzene induced by an intense laser field. <i>Chemical Physics Letters</i> , 2005, 404, 379-383. | 2.6 | 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. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042080. | 0.4 | 17 |
| 136 | Magnetic field generation due to resonance absorption. <i>Physics of Fluids</i> , 1976, 19, 1833. | 1.4 | 16 |
| 137 | Secondary nuclear fusion reactions as evidence of electron degeneracy in highly compressed fusion fuel. <i>Laser and Particle Beams</i> , 1990, 8, 609-620. | 1.0 | 16 |
| 138 | The interactions of ultra-short high-intensity laser pulses with large molecules and clusters: Experimental and computational studies. <i>Physics of Plasmas</i> , 2001, 8, 2517-2524. | 1.9 | 16 |
| 139 | Recent progress in laser fusion research at Osaka University: Uniformity and stability issues*. <i>Physics of Plasmas</i> , 1994, 1, 1653-1661. | 1.9 | 15 |
| 140 | Interaction physics of the fast ignitor concept. <i>Laser and Particle Beams</i> , 1997, 15, 557-564. | 1.0 | 15 |
| 141 | Single spatial mode experiments on initial laser imprint on direct-driven planar targets. <i>Physics of Plasmas</i> , 2002, 9, 1734-1744. | 1.9 | 15 |
| 142 | Nonlinear Dynamics of Non-uniform Current-Vortex Sheets in Magnetohydrodynamic Flows. <i>Journal of Nonlinear Science</i> , 2017, 27, 531-572. | 2.1 | 15 |
| 143 | Generation of one-cycle laser pulses by use of high-amplitude plasma waves. <i>Physical Review E</i> , 2000, 62, 7258-7265. | 2.1 | 14 |
| 144 | Laboratory simulation of the collision of supernova 1987A with its circumstellar ring nebula. <i>Plasma Physics Reports</i> , 2001, 27, 843-851. | 0.9 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Three-dimensional imaging of laser imploded targets. <i>Journal of Applied Physics</i> , 1990, 68, 1483-1488. | 2.5 | 13 |
| 146 | Simulation of the expansion of a crystal heated by an ultrashort laser pulse. <i>Applied Surface Science</i> , 2007, 253, 6390-6393. | 6.1 | 13 |
| 147 | Conversion Efficiency of LPP Sources. , 0, , 339-370. | | 13 |
| 148 | Weak Thermonuclear Reaction Wave in High-Density Plasma. <i>Journal of the Physical Society of Japan</i> , 1976, 41, 1774-1777. | 1.6 | 12 |
| 149 | Thermonuclear Reaction Wave in High-Density Plasma. <i>Journal of the Physical Society of Japan</i> , 1977, 43, 1393-1399. | 1.6 | 12 |
| 150 | Gain measurements of the $C\alpha$ transition (18.2 nm) from the wall-confined carbon plasmas produced by a CO ₂ laser. <i>Applied Physics Letters</i> , 1989, 55, 223-225. | 3.3 | 12 |
| 151 | Atomic modeling of the plasma EUV sources. <i>High Energy Density Physics</i> , 2007, 3, 250-255. | 1.5 | 12 |
| 152 | Advanced laser-produced EUV light source for HVM with conversion efficiency of 5-7% and B-field mitigation of ions. <i>Proceedings of SPIE</i> , 2008, , . | 0.8 | 12 |
| 153 | Identification of $4d \rightarrow 5p$ transitions in the spectra of Sn $XV \rightarrow Sn XIX$ recorded from collisions between Sn ions and He. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 165207. | 1.5 | 12 |
| 154 | X-ray and radioactive measurements in ICF research at ILE Osaka (invited). <i>Review of Scientific Instruments</i> , 1985, 56, 1128-1132. | 1.3 | 11 |
| 155 | Fermi-degeneracy and discrete-ion effects in the spherical-cell model and electron-electron correlation effects in hot dense plasmas. <i>Physical Review A</i> , 1992, 46, 6596-6607. | 2.5 | 11 |
| 156 | Orientation Dependence of Shock Structure with Melting in L-J Crystal from Molecular Dynamics. <i>Progress of Theoretical Physics Supplement</i> , 2000, 138, 223-228. | 0.1 | 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. <i>High Energy Density Physics</i> , 2009, 5, 147-151. | 1.5 | 11 |
| 159 | Inertial confinement fusion research by particle beams at ILE Osaka. <i>Laser and Particle Beams</i> , 1983, 1, 29-65. | 1.0 | 10 |
| 160 | Dynamics and stability of a stagnating hot spot. <i>Physics of Plasmas</i> , 1995, 2, 3466-3472. | 1.9 | 10 |
| 161 | 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 |
| 162 | Multi-electron correlations in atomic or ionic excited states. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 1227-1228. | 1.7 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | EUV light source by high power laser. Journal of Physics: Conference Series, 2008, 112, 042047. | 0.4 | 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. | 3.3 | 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. | 7.8 | 9 |
| 167 | Energy absorption and transport in layered targets irradiated by a relativistic electron beam. Applied Physics Letters, 1980, 37, 533-535. | 3.3 | 9 |
| 168 | Strong Damping of Stimulated Brillouin Scattering in Cavity-Structured Targets. Physical Review Letters, 1987, 58, 33-36. | 7.8 | 9 |
| 169 | Reduction in bremsstrahlung emission from hot, dense binary-ionic-mixture plasmas. Physical Review A, 1990, 42, 3532-3543. | 2.5 | 9 |
| 170 | Implosion of D ₂ temperature-controlled cryogenic foam targets with plastic ablaters. Physical Review E, 1994, 49, 1520-1526. | 2.1 | 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. | 1.0 | 9 |
| 175 | Characteristics of plasmas imploded by 1%, 2%, 3% and 4% lasers. Laser and Particle Beams, 1986, 4, 43-54. | 1.0 | 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. | 1.5 | 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. | 2.1 | 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. | 1.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Normal velocity freeze-out of the Richtmyer-Meshkov instability when a shock is reflected. <i>Physical Review E</i> , 2004, 70, 026305. | 2.1 | 8 |
| 182 | Atomistic Dynamics of the Richtmyer-Meshkov Instability in Cylindrical and Planar Geometries. <i>AIP Conference Proceedings</i> , 2006, . . | 0.4 | 8 |
| 183 | Ignition and Burning Calculations in Inertial Confinement Fusion Driven by Light Ion Beam. <i>Journal of the Physical Society of Japan</i> , 1981, 50, 3085-3090. | 1.6 | 7 |
| 184 | Absorption of 0.53 μ m laser light in cannonball targets. <i>Optics Communications</i> , 1986, 60, 169-174. | 2.1 | 7 |
| 185 | Observation of long life plasma generated in a cavity by CO ₂ lasers. <i>Laser and Particle Beams</i> , 1986, 4, 17-25. | 1.0 | 7 |
| 186 | Time-resolved measurements of laser-induced shock waves in deuterated polystyrene porous targets by x-ray backlighting. <i>Physics of Fluids B</i> , 1991, 3, 735-744. | 1.7 | 7 |
| 187 | Accelerated dense ion filament formed by ultra intense laser in plasma slab. <i>AIP Conference Proceedings</i> , 2002, . . | 0.4 | 7 |
| 188 | Vortex structures and turbulence emerging in a supernova 1987a configuration: Interactions of α -complex blast waves and cylindrical/spherical bubbles. <i>Laser and Particle Beams</i> , 2003, 21, 471-477. | 1.0 | 7 |
| 189 | Suppression of the Rayleigh-Taylor instability and its implication for the impact ignition. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B245-B254. | 2.1 | 7 |
| 190 | Fine Structures of Laser-Driven Punched-Out Tin Fuels Observed with Extreme Ultraviolet Backlight Imaging. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 293-296. | 1.5 | 7 |
| 191 | Complementary spectroscopy of tin ions using ion and electron beams. <i>Journal of Physics: Conference Series</i> , 2009, 163, 012071. | 0.4 | 7 |
| 192 | Investigation of the ionization balance of bismuth-to-tin plasmas for the extreme ultraviolet light source based on a computer-generated collisional radiative model. <i>AIP Advances</i> , 2016, 6, 105002. | 1.3 | 7 |
| 193 | Nonlinear interfacial motion in magnetohydrodynamic flows. <i>High Energy Density Physics</i> , 2019, 31, 19-23. | 1.5 | 7 |
| 194 | Nonlinear interaction between bulk point vortices and an unstable interface with nonuniform velocity shear such as Richtmyer-Meshkov instability. <i>Physics of Plasmas</i> , 2020, 27, . | 1.9 | 7 |
| 195 | Laser-driven generation of collimated quasi-monoenergetic proton beam using double-layer target with modulated interface. <i>High Energy Density Physics</i> , 2020, 36, 100844. | 1.5 | 7 |
| 196 | Anomalous Transmission of Laser Light through a Thin Foil Target under 1.06 μ m Laser Irradiation. <i>Japanese Journal of Applied Physics</i> , 1983, 22, L786-L788. | 1.5 | 6 |
| 197 | Two Secondary Fusion Reactions in Deuterium Fuel as a Diagnostic for Fuel-Pusher Mixing Rate in Inertial Confinement Fusion. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1301-L1303. | 1.5 | 6 |
| 198 | Development of x-ray emission computed tomography for ICF research. <i>Review of Scientific Instruments</i> , 1990, 61, 2783-2785. | 1.3 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Nondrifting relativistic electromagnetic solitons in plasmas. Laser and Particle Beams, 2003, 21, 541-544. | 1.0 | 6 |
| 200 | Saturation and postsaturation phenomena of Rayleigh-Taylor instability with adjacent modes. Physical Review E, 2003, 67, 026404. | 2.1 | 6 |
| 201 | Self-Similar Gravitational Collapse of Radiatively Cooling Spheres. Astrophysical Journal, 2004, 607, 879-889. | 4.5 | 6 |
| 202 | Study on EUV emission properties of laser-produced plasma at ILE, Osaka. , 2004, , . | | 6 |
| 203 | Linear and nonlinear interactions between an interface and bulk vortices in Richtmyer-Meshkov instability. Physics of Plasmas, 2020, 27, . | 1.9 | 6 |
| 204 | Theory of efficient shell implosions. Laser and Particle Beams, 1989, 7, 189-205. | 1.0 | 5 |
| 205 | Measurement and detail analysis of gain on balmer-alpha line of hydrogen-like carbon in wall-confined CO ₂ laser-produced plasmas. Journal of Applied Physics, 1991, 69, 4189-4195. | 2.5 | 5 |
| 206 | Design of Laser Fusion Reactor driven by Laser-Diode-Pumped Solid State Laser. Fusion Science and Technology, 1992, 21, 1460-1464. | 0.6 | 5 |
| 207 | NUMERICAL SIMULATION OF MIXING BY RAYLEIGH-TAYLOR INSTABILITY AND ITS FRACTAL STRUCTURES. Fractals, 1996, 04, 241-250. | 3.7 | 5 |
| 208 | Rippled shock propagation and hydrodynamic perturbation growth in laser implosion. Journal of Materials Processing Technology, 1999, 85, 34-38. | 6.3 | 5 |
| 209 | Convective instability of radiatively cooling self-similar implosions. Physics of Plasmas, 2000, 7, 2978-2986. | 1.9 | 5 |
| 210 | Anisotropic filamentation and modulation of ultra-intense linearly polarized laser light in overdense plasma. , 2000, , . | | 5 |
| 211 | Numerical Simulation of Non-spherical Implosion Related to Fast Ignition. AIP Conference Proceedings, 2003, , . | 0.4 | 5 |
| 212 | Estimation of emission efficiency for laser-produced EUV plasmas. , 2004, , . | | 5 |
| 213 | Properties of EUV emissions from laser-produced tin plasmas. , 2004, 5374, 912. | | 5 |
| 214 | Numerical Simulation of the Expansion into Vacuum of a Crystal Heated by an Ultrashort Laser Pulse. , 2007, , 1-16. | | 5 |
| 215 | Equation of state of matter irradiated by short laser pulse and geometry of spalled cupola. Proceedings of SPIE, 2008, , . | 0.8 | 5 |
| 216 | The atomic model of the Sn plasmas for the EUV source. Journal of Physics: Conference Series, 2009, 163, 012107. | 0.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Utilization of rock-like oxide fuel in the phase-out scenario. Journal of Nuclear Science and Technology, 2014, 51, 150-165. | 1.3 | 5 |
| 218 | Pellet Gain Optimization of Particle Beam Fusion with Au Shell and DT Fuel Target. Journal of the Physical Society of Japan, 1981, 50, 741-742. | 1.6 | 5 |
| 219 | Measurement of ICF Plasma Parameters by the Activation Method. Japanese Journal of Applied Physics, 1985, 24, 1689-1696. | 1.5 | 4 |
| 220 | Properties of CO ₂ laser produced long-life plasmas observed by x-ray spectroscopic methods. Journal of Applied Physics, 1988, 63, 1350-1354. | 2.5 | 4 |
| 221 | Relation between Lyapunov Exponent and Dielectric Response Function in Dilute One Component Plasmas. Physical Review Letters, 1997, 79, 2249-2252. | 7.8 | 4 |
| 222 | Ignition condition and gain scaling of low temperature ignition targets. Nuclear Fusion, 1998, 38, 467-479. | 3.5 | 4 |
| 223 | Relativistic Electromagnetic Solitons Produced by Ultrastrong Laser Pulses in Plasmas. AIP Conference Proceedings, 2002, , . | 0.4 | 4 |
| 224 | RCI Simulation for EUV spectra from Sn ions. Journal of Physics: Conference Series, 2007, 58, 149-152. | 0.4 | 4 |
| 225 | Optimum laser-produced plasma for extreme ultraviolet light source. Journal of Physics: Conference Series, 2008, 112, 042049. | 0.4 | 4 |
| 226 | Laser-produced plasmas as unique x-ray sources for industry and astrophysics. Journal of Physics: Conference Series, 2010, 244, 012001. | 0.4 | 4 |
| 227 | 3D Particle Simulation of Hot Dense Plasma.. Kakuyō Kenkyū, 1991, 66, 253-263. | 0.1 | 4 |
| 228 | Triple Solitary Waves in Nonlinear Interaction of Wave Packets. Journal of the Physical Society of Japan, 1975, 39, 803-807. | 1.6 | 3 |
| 229 | Pulsation of stimulated Raman scattering in a laser plasma. Physics of Fluids B, 1990, 2, 815-821. | 1.7 | 3 |
| 230 | Laser Fusion "High Density Compression Experiment and Ignition Program with Gekko XII. , 1992, , 443-502. | | 3 |
| 231 | Laser Fusion Research at Ite Osaka University. Fusion Science and Technology, 1996, 30, 625-633. | 0.6 | 3 |
| 232 | Interaction of Ultra Intense Laser with Overdense Plasma. Progress of Theoretical Physics Supplement, 2000, 138, 684-689. | 0.1 | 3 |
| 233 | Dependence of EUV emission properties on laser wavelength. , 2004, , . | | 3 |
| 234 | Simulations on laser ablation and its applications. , 2004, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Theoretical simulation of extreme UV radiation source for lithography. , 2004, 5374, 405. | | 3 |
| 236 | Extreme Ultraviolet Emission from Laser-Irradiated Low-Density Xe Targets. Japanese Journal of Applied Physics, 2006, 45, 5951-5953. | 1.5 | 3 |
| 237 | Nanospallation induced by a femtosecond laser pulse. Proceedings of SPIE, 2007, , . | 0.8 | 3 |
| 238 | MCDF calculations for EUV-emissions of 4d-open shell ions based on the features of non-local exchange integrals. Journal of Physics: Conference Series, 2007, 58, 157-160. | 0.4 | 3 |
| 239 | Configuration interaction in charge exchange spectra of tin and xenon. Physica Scripta, 2011, T144, 014026. | 2.5 | 3 |
| 240 | Temperature-Dependent EUV Spectra of Xenon Plasmas Observed in the Compact Helical System. Journal of Plasma and Fusion Research, 2005, 81, 480-481. | 0.4 | 3 |
| 241 | Laser Production of Extreme Ultraviolet Light Source for the Next Generation Lithography Application. Plasma and Fusion Research, 2009, 4, 048-048. | 0.7 | 3 |
| 242 | Development of Extreme-Ultraviolet Light Source by Laser-Produced Plasma. The Review of Laser Engineering, 2008, 36, 1125-1128. | 0.0 | 3 |
| 243 | Time-resolved measurement of radical populations in extreme-ultraviolet-light-induced hydrogen plasma. Applied Physics Express, 2022, 15, 036002. | 2.4 | 3 |
| 244 | Observation of Burn and Pusher Regions of Laser-Driven Large-High-Aspect-Ratio Target by $\hat{\pm}$ -Particle Imaging. Japanese Journal of Applied Physics, 1990, 29, 2135-2138. | 1.5 | 2 |
| 245 | <title>Aspherical multilens array for uniform target irradiation</title>. , 1993, , . | | 2 |
| 246 | Beam matter interaction physics for fast ignitors. Fusion Engineering and Design, 1999, 44, 215-224. | 1.9 | 2 |
| 247 | <title>Laser cleaning for decontaminated surfaces</title>. , 2000, , . | | 2 |
| 248 | Transformation of laser radiation into post-solitons with ion acceleration. AIP Conference Proceedings, 2002, , . | 0.4 | 2 |
| 249 | Three-dimensional electromagnetic solitary waves in an underdense plasma in PIC simulations. AIP Conference Proceedings, 2002, , . | 0.4 | 2 |
| 250 | Present Status and Future Prospects of Laser Fusion Research at ILE Osaka University. Plasma Science and Technology, 2004, 6, 2179-2184. | 1.5 | 2 |
| 251 | Evaluation of tin-foil targets for debris mitigation in laser generated EUV source. , 2005, 5751, 815. | | 2 |
| 252 | Self-consistent Monte Carlo simulation of particle motion and photon transport in the Argon positive column. Journal of Plasma Physics, 2006, 72, 1005. | 2.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Fabrication of Low-Density Solid Xenon as Laser-Produced Plasma Extreme Ultraviolet Source. Japanese Journal of Applied Physics, 2006, 45, L884-L886. | 1.5 | 2 |
| 254 | Development of "Punching-Out Target" to Generate Extreme Ultraviolet (EUV) Light. Fusion Science and Technology, 2007, 51, 769-771. | 1.1 | 2 |
| 255 | Atomic processes in the LPP and LA-DPP EUV sources. , 2009, , . | | 2 |
| 256 | Charge-exchange EUV spectroscopy in collisions of Xe $\sum_{i=1}^{25} \text{ETQq}_0 \text{O}_0 \text{rgBT} /$ | | |
| 257 | with rare gases. Physical Review A, 2011, 84, . Nonlinear motion of non-uniform current-vortex sheets in magnetohydrodynamic flows. Fluid Dynamics Research, 2014, 46, 031416. | 1.3 | 2 |
| 258 | Efficient neutron generation from solid-nanoparticle explosions driven by DPSSL-pumped high-repetition rate femtosecond laser pulse. Journal of Physics: Conference Series, 2016, 688, 012125. | 0.4 | 2 |
| 259 | Atomic processes and equation of state of high Z plasmas for EUV sources and their effects on the spatial and temporal evolution of the plasmas. Journal of Physics: Conference Series, 2016, 688, 012099. | 0.4 | 2 |
| 260 | Vortex generation and deformation of the interface in three-dimensional Rayleigh-Taylor Instability. European Physical Journal Special Topics, 2006, 133, 209-212. | 0.2 | 2 |
| 261 | Laser Produced Plasma for EUV Light Source For Lithography. The Review of Laser Engineering, 2004, 32, 330-336. | 0.0 | 2 |
| 262 | CONCEPTUAL STUDIES ON HIGH GAIN LASER FUSION REACTOR WITH MAGNETICALLY GUIDED LI FLOW. , 1981, , 1235-1240. | | 2 |
| 263 | Electrostatic Instabilities of a Mirror-Confined Plasma with Anisotropic Velocity Distribution. Applied Physics Letters, 1972, 20, 8-9. | 3.3 | 1 |
| 264 | Optimization of Shell Implosion Driven by Black Body Radiation. Japanese Journal of Applied Physics, 1986, 25, L257-L260. | 1.5 | 1 |
| 265 | Properties of Shell-Confined Long Life Plasmas Produced by Lasers. Japanese Journal of Applied Physics, 1989, 28, 507-511. | 1.5 | 1 |
| 266 | Beatwave excitation of plasma wave and electron acceleration. AIP Conference Proceedings, 1991, , . | 0.4 | 1 |
| 267 | Stimulated Raman scattering from symmetrically illuminated two-layered spherical targets with 527 nm laser light. Physics of Plasmas, 1995, 2, 486-492. | 1.9 | 1 |
| 268 | Modeling of initial imprinting caused by laser-intensity nonuniformities in ablative plasmas. AIP Conference Proceedings, 1996, , . | 0.4 | 1 |
| 269 | Implosion experiments with uniformity-improved GEKKO XII: Overview. AIP Conference Proceedings, 1996, , . | 0.4 | 1 |
| 270 | High-convergence uniform implosion of fusion pellets with the new GEKKO laser. Plasma Physics and Controlled Fusion, 1997, 39, A401-A409. | 2.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Fast ignitor with long range DT ion energy deposition leading to volume ignition. , 1997, , . | | 1 |
| 272 | The Interaction Physics of the Fast Ignitor Concept. <i>Astrophysics and Space Science</i> , 1997, 256, 161-168. | 1.4 | 1 |
| 273 | Lyapunov exponent of dilute gas, liquid and solid plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, A257-A266. | 2.1 | 1 |
| 274 | Direct measurement of laser irradiation uniformity of fusion pellets by the use of X-ray frame images. <i>Fusion Engineering and Design</i> , 1999, 44, 137-140. | 1.9 | 1 |
| 275 | Nonlinear Evolution of Single Spike Structure and Vortex in the Richtmyer-Meshkov Instability. <i>Journal of Plasma and Fusion Research</i> , 1999, 75-CD, 201-210. | 0.4 | 1 |
| 276 | Appearance of Fractal Structure in Rayleigh-Taylor Instability and Dynamic Suppression of Forced Rayleigh-Taylor Instability. <i>Journal of Plasma and Fusion Research</i> , 1999, 75-CD, 211-218. | 0.4 | 1 |
| 277 | Effect of viscosity on destabilization of the Rayleigh-Taylor instability by thermal conductivity in a fluid. <i>Physics of Plasmas</i> , 2002, 9, 3536-3539. | 1.9 | 1 |
| 278 | X-ray radiograms of complex blast wave/sphere interactions obtained from laser-produced plasmas juxtaposed with visualizations of two-dimensional axisymmetric hydrodynamic simulations. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 36-37. | 1.3 | 1 |
| 279 | Target fabrication of low-density and nanoporous tin oxide as laser targets to generate extreme ultraviolet. , 2005, 5751, 867. | | 1 |
| 280 | Progress in LPP EUV source development at Osaka University. , 2006, , . | | 1 |
| 281 | e-Science in high energy density science research. <i>Fusion Engineering and Design</i> , 2008, 83, 525-529. | 1.9 | 1 |
| 282 | Multi-mode character of the nonlinear dynamics of a vortex sheet in Rayleigh-Taylor and Richtmyer-Meshkov instabilities. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022020. | 0.4 | 1 |
| 283 | 3D PIC simulation of ion debris mitigation by B-field for LPP-EUV source. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042061. | 0.4 | 1 |
| 284 | EUV source design flexibility for lithography. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042065. | 0.4 | 1 |
| 285 | Modeling of the Atomic Processes and Photo Emission of the Plasmas for the EUV Source. <i>The Review of Laser Engineering</i> , 2008, 36, 1132-1135. | 0.0 | 1 |
| 286 | Vacuum ultraviolet spectra in charge transfer collisions of multiply charged Sn ions. <i>Journal of Physics: Conference Series</i> , 2009, 163, 012053. | 0.4 | 1 |
| 287 | Present status and future prospect of Fast Ignition Realization Experiment (FIREX) Project at ILE, Osaka. , 2010, , . | | 1 |
| 288 | EUV spectra of Xe xviii-Xe xxi produced in charge-exchange collisions. <i>Physical Review A</i> , 2012, 85, . | 2.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Nonlinear motion of a current-vortex sheet in MHD Richtmyer-Meshkov instability. Journal of Physics: Conference Series, 2016, 688, 012063. | 0.4 | 1 |
| 290 | Modeling of initial interaction between the laser pulse and Sn droplet target and pre-plasma formation for the LPP EUV source. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 291 | Study on XUV Lasers Produced by a CO2 Laser. Springer Proceedings in Physics, 1988, , 105-112. | 0.2 | 1 |
| 292 | Vortex sheet model for Rayleigh-Taylor and Richtmyer-Meshkov instabilities. European Physical Journal Special Topics, 2006, 133, 171-173. | 0.2 | 1 |
| 293 | EUV and particle generations from laser-irradiated solid- and low-density targets. European Physical Journal Special Topics, 2006, 133, 1189-1192. | 0.2 | 1 |
| 294 | Generation of collimated quasi-mono-energetic ion beams using a double layer target with interface modulations. , 2019, , . | | 1 |
| 295 | Effects of Relativistic Thermal Velocity Spread of Beam on Electromagnetic Instabilities in Fast Ignition. Plasma and Fusion Research, 2007, 2, 049-049. | 0.7 | 1 |
| 296 | Advanced Target Design for the FIREX-I Project. Plasma and Fusion Research, 2009, 4, S1001-S1001. | 0.7 | 1 |
| 297 | Ablation and Compression Mechanism in Laser Fusion Plasma.. The Review of Laser Engineering, 1979, 7, 394-400. | 0.0 | 1 |
| 298 | Development of EUV light source by laser-produced plasma. European Physical Journal Special Topics, 2006, 133, 1161-1165. | 0.2 | 1 |
| 299 | Target fabrication of low-density and nanoporous materials to generate extreme ultraviolet (EUV). European Physical Journal Special Topics, 2006, 133, 875-880. | 0.2 | 1 |
| 300 | Scaling Laws for Ablative Compression. The Review of Laser Engineering, 1981, 9, 658-667. | 0.0 | 1 |
| 301 | Computer Simulation - Trends in Highly Nonlinear Physics 6. 4. Nonlinear Phenomena in Inertial Confinement Fusion Plasma. 4-2 Nonlinear Evolution of the Rayleigh-Taylor Instability.. Kakuyō Kenkyū, 1991, 66, 405-412. | 0.1 | 1 |
| 302 | Physics highlights of the Gekko12 program. Plasma Physics and Controlled Fusion, 1992, 34, 1775-1783. | 2.1 | 0 |
| 303 | Implosion dynamics of a hot core. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 304 | Improvement of the imploded core performance with uniform Gekko-XII green laser system. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 305 | Ablation effects in weakly nonlinear stage of the ablative Rayleigh-Taylor instability. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 306 | N-body Lyapunov expansion rates in one component strongly coupled plasmas. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 307 | Stimulated Raman scattering from two overlapped 527 nm laser beams. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 308 | Hot spark structure in laser-imploded core plasmas observed with 10-ps-resolved x-ray imaging. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 309 | Œ”R measurement of imploded cryogenic foam target by DD-protons. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 310 | Tow-stage extraction ion diode experiments on Reiden-SHVS for light ion fusion. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 311 | A new instability of a contact surface driven by a nonuniform shock wave. AIP Conference Proceedings, 1996, , . | 0.4 | 0 |
| 312 | Recent Progress of Laser Technologies and Advances in Laser Fusion Research.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1996, 38, 961-969. | 0.0 | 0 |
| 313 | Ablation effects in weakly nonlinear stage of the ablative Rayleighâ€”Taylor instability. Laser and Particle Beams, 1996, 14, 45-54. | 1.0 | 0 |
| 314 | The interaction physics of the fast ignitor concept. , 1997, , . | | 0 |
| 315 | Ignition and burn dynamics of low temperature ignition D-T targets. , 1997, , . | | 0 |
| 316 | Agreement of measured fusion gains with the self-similarity model and volume ignition for NIF conditions. , 1997, , . | | 0 |
| 317 | Hydrodynamic perturbation growth in the start-up phase. Fusion Engineering and Design, 1999, 44, 199-203. | 1.9 | 0 |
| 318 | Progress of direct drive laser fusion research at ILE, Osaka. , 1999, 3492, 34. | | 0 |
| 319 | Dynamics of anisotropic Coulomb explosion of C60 under an intense laser field. , 2000, 3886, 521. | | 0 |
| 320 | Coulomb explosion of benzene in high-intensity laser fields. , 2001, , . | | 0 |
| 321 | <title>Convective instability of radiatively cooling self-similar implosions</title>. , 2001, , . | | 0 |
| 322 | Ultra-short laser pulse interaction with large molecule and cluster. , 0, , . | | 0 |
| 323 | Relativistic interaction of ultra-short laser pulses with plasmas. AIP Conference Proceedings, 2002, , . | 0.4 | 0 |
| 324 | A Three Dimensional Simulation of Solitary Waves in the Laser Wake. AIP Conference Proceedings, 2002, , . | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 325 | Progress in understanding of laser-produced plasmas for EUV source. , 0, , . | | 0 |
| 326 | Laser ICF with Single Event Solution. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 327 | Hydrodynamic Instability Experiments on the HIPER Laser. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 328 | Experimental study on basic properties of laser-produced EUV plasmas on GEKKO-XII laser facility. , 2004, , . | | 0 |
| 329 | Experimental study on ablative stabilization of Rayleigh-Taylor instability of laser-irradiated targets. , 2004, , . | | 0 |
| 330 | Estimations on high energy ions and neutral particles from LPP EUV light sources. , 2005, 5751, 789. | | 0 |
| 331 | Modeling of the atomic processes in the laser-plasma EUV sources. , 2005, 5751, 935. | | 0 |
| 332 | Simulations on laser ablation and its applications to EUV light sources. , 2005, , . | | 0 |
| 333 | Theoretical and Experimental Databases for High Average Power EUV Light Source by Laser Produced Plasma. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 334 | EUV light source by high power laser. , 2007, , . | | 0 |
| 335 | Low density targets for laser-produced-plasma (LPP) extreme ultraviolet light source with high-CE and toward high-repletion supply. , 2008, , . | | 0 |
| 336 | High energy electron transport in dense plasma in fast ignition scenario. Journal of Physics: Conference Series, 2008, 112, 022090. | 0.4 | 0 |
| 337 | Multi-Species Ion Acceleration in Expansion of Finite-Size Plasma Targets. Plasma and Fusion Research, 2008, 3, 035-035. | 0.7 | 0 |
| 338 | Low threshold spallative ablation of large bandgap LiF dielectrics induced by picosecond soft X-ray laser pulses. , 2009, , . | | 0 |
| 339 | Modeling of atomic and plasmas processes in the LPP and LA-DPP EUV source. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 340 | Physics and Future of the Laser Pumped Plasma XUV Sources. The Review of Laser Engineering, 2010, 38, 969-975. | 0.0 | 0 |
| 341 | Modeling of Atomic Processes of Multiple Charged Ions in Plasmas and Its Application to the Study of EUV Light Sources. Plasma and Fusion Research, 2011, 6, 2401145-2401145. | 0.7 | 0 |
| 342 | EUV emission spectra of iron ions following charge exchange collisions with He. Physica Scripta, 2011, T144, 014030. | 2.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | Charge-state-specific EUV spectra of Xe ions. Journal of Physics: Conference Series, 2012, 388, 082052. | 0.4 | 0 |
| 344 | Laser ion acceleration and neutron source in short-pulse solid- nanoparticle interaction. Journal of Physics: Conference Series, 2016, 688, 012076. | 0.4 | 0 |
| 345 | A numerical model for investigation of emission of particle debris from laser-irradiated metal targets. AIP Advances, 2017, 7, 095005. | 1.3 | 0 |
| 346 | Modeling of Ablation of the Target Material for the Plasma for Coherent and Incoherent EUV Sources. Springer Proceedings in Physics, 2018, , 373-376. | 0.2 | 0 |
| 347 | $3 \text{ \AA} - 10 \text{ \AA}$ D-D Neutron Generation by High-Intensity Laser Irradiation onto the Inner Surface of Spherical CD Shells. Plasma and Fusion Research, 2018, 13, 2401028-2401028. | 0.7 | 0 |
| 348 | Parallelization, Vectorization and Visualization of Large Scale Plasma Particle Simulations and Its Application to Studies of Intense Laser Interactions. Lecture Notes in Computer Science, 2000, , 535-536. | 1.3 | 0 |
| 349 | Generation and Dynamics of Vortices. I.. Journal of Plasma and Fusion Research, 2002, 78, 782-783. | 0.4 | 0 |
| 350 | Advances in Plasma and Fusion Simulation and Prospects for the Future Progress of Laser Fusion Simulations and Network Computing. Journal of Plasma and Fusion Research, 2004, 80, 396-400. | 0.4 | 0 |
| 351 | Suppression of Rayleigh-Taylor Instability Using High-Z Doped Plastic Targets for Inertial Fusion Energy. Journal of Plasma and Fusion Research, 2004, 80, 597-604. | 0.4 | 0 |
| 352 | Features of Radiation Hydrodynamics in LPP-EUV Light Source Plasmas. The Review of Laser Engineering, 2004, 32, 769-778. | 0.0 | 0 |
| 353 | Numerical analysis of energy transport by intense resonance line in Lithium plasmas. European Physical Journal Special Topics, 2006, 133, 1185-1187. | 0.2 | 0 |
| 354 | Atomic Model and Optimization of EUV Light Source. The Review of Laser Engineering, 2008, 36, 690-699. | 0.0 | 0 |
| 355 | Extreme Ultraviolet (EUV) Radiation from Punched-Out Target. The Review of Laser Engineering, 2008, 36, 736-741. | 0.0 | 0 |
| 356 | THERMONUCLEAR REACTION WAVE IN HIGH-DENSITY PLASMA. The Review of Laser Engineering, 1977, 4, 172-190. | 0.0 | 0 |
| 357 | Various Compression Mechanisms and Their Scaling Laws in Laser Fusion. Kakuyō Kenkyū, 1982, 48, 157-172. | 0.1 | 0 |
| 358 | Ion Emission from Laser Produced Plasmas of Multi-ion Species. The Review of Laser Engineering, 1982, 10, 45-55. | 0.0 | 0 |
| 359 | Generation of Long Life Plasma and Strong Magnetic Field by CO2 Laser. , 1986, , 449-468. | | 0 |
| 360 | Review of Laser Fusion Theory and Simulation. The Review of Laser Engineering, 1986, 14, 1066-1089. | 0.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 361 | Experimental Study and Application of Laser-Produced Plasmas in Two-Plate Targets. Springer Proceedings in Physics, 1988, , 246-253. | 0.2 | 0 |
| 362 | The Interaction Physics of the Fast Ignitor Concept. , 1998, , 161-168. | | 0 |
| 363 | Rippled Shock Propagation and Hydrodynamic Perturbation Growth in Laser Implosion.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 930-932. | 0.0 | 0 |
| 364 | AN EVIDENCE OF ANOMALOUS DEPOSITION OF REB ENERGY TO THE LOW Z TARGET. Journal De Physique Colloque, 1979, 40, C7-779-C7-780. | 0.2 | 0 |